

5813-100

2/13/2012

10451



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 13, 2012

J. Evelyn Lawson, Federal Registration Specialist  
The Clorox Company  
C/o PS&RC; P. O. Box 493  
Pleasanton, CA 94566-0803

Subject: Notification per PR notice 98-10  
Puma  
EPA Registration Number: 5813-100  
Application Date: January 31, 2012  
Application Receipt: February 1, 2012

Dear Ms. Lawson:

This acknowledges receipt of the above notification application, submitted under the provision PR Notice 98-10, FIFRA 3(c) 9.

Proposed Notification:

- 1.) Page 6, EPA Est. No. changes and website changes/additions;
- 2.) Page 7, added "terminal sterilant" statement for certain labels;
- 3.) Pages 30-31, removed the C. diff exposure services bulletin.

General Comments:

Based on a review of the material submitted, the following comment applies:

The notification application is acceptable. A copy of the accepted notification has been inserted in your file for future reference.

Should you have any questions or comment concerning this letter, please contact Killian Swift via email at [swift.killian@epa.gov](mailto:swift.killian@epa.gov) or by telephone at (703) 308-6346 during hours of 5:00 AM to 12:00 PM EST.

Sincerely,

A handwritten signature in black ink, appearing to read "Monisha Harris".

Monisha Harris  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number  
EL0411

Application for Pesticide - Section I

1. Company/Product Number 5813-100	2. EPA Product Manager Monisha Harris	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Puma	PM# 32	
5. Name and Address of Applicant (Include ZIP Code) The Clorox Company c/o PS&RC; P. O. Box 493 Pleasanton, CA 94566-0803 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of labeling additions per PR Notice 98-10: p. 6 - EPA Est. No. changes and website changes/additions, p.7 - added "terminal sterilant" language statement for certain labels; pp.14,15, 29 added or bracketed the symbol ‡; we removed the C. diff exposure services bulletin (pp. 30-31). This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. § 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under § 12 and § 14 of FIFRA. We enclose 1 marked-up and 5 clean label copies.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name J. Evelyn Lawson	Title Federal Registration Specialist	Telephone No. (Include Area Code) (925) 425-6842
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature <i>J. Evelyn Lawson</i>	3. Title Federal Registration Specialist	
4. Typed Name J. Evelyn Lawson	5. Date January 31, 2012	

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R0827061

# PUMA

NOTIFICATION  
Date Reviewed: 2/13/2012  
Reviewed By: K. Smith

**KEEP OUT OF REACH OF CHILDREN  
DANGER: CORROSIVE.**

**FIRST AID:**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. **IF ON**

**SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IN EITHER CASE, CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE.**

See back panel for additional precautionary labeling.

Active Ingredient:

Sodium Hypochlorite ..... 8.25%

Other Ingredients: ..... 91.75%

Total: ..... 100.00%

(Yields 7.85% available chlorine)

Contains no phosphorus

**NET CONTENTS \_\_\_\_\_**



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**PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.**

**DANGER: CORROSIVE.**

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses -or- protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet -or- restroom. Avoid breathing vapors and use only in a well ventilated area. [Remove and wash contaminated clothing before reuse.]

[Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.]

**FIRST AID:**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Have person sip a glassful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Call a poison control center or doctor immediately for further treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment. Clorox Information Line: 1-800-292-2200.

**PHYSICAL OR CHEMICAL HAZARDS:** Product contains a strong oxidizer. Always flush drains before and after use. **Do not use or mix with other household chemicals**, such as toilet bowl cleaners, rust removers, acids or products containing ammonia. To do so will release hazardous irritating gases. [Prolonged contact with metal may cause pitting or discoloration.]

**For containers 5 gallons and greater:**

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**[For containers less than 5 gallons:]**

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, aquatic invertebrates, oysters and shrimp.

***(Household/Residential uses; 30 fl oz, 64 fl oz, 121 fl oz)***

**STORAGE AND DISPOSAL:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. **CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

***(Professional/Institutional uses - including labels intended for restaurants, medical facilities, daycare facilities; 121 fl oz):***

**STORAGE AND DISPOSAL:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. **CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. [Triple rinse container (or equivalent) promptly after emptying.] Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

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***(Professional/Institutional uses -For use with containers greater than 5 gallons):***

**STORAGE AND DISPOSAL:** Do not contaminate food or feed by storage and disposal of this product. **STORAGE:** Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water before discarding this container in trash.

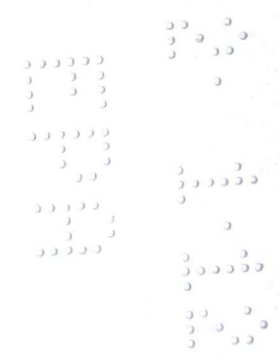
**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance.

***(nonrefillable container)***

**CONTAINER HANDLING AND DISPOSAL:** Nonrefillable container. Do not re-use or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

***(refillable container)***

**CONTAINER HANDLING AND DISPOSAL:** Refillable container. Refill container with this product only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container prior to final disposal, empty remaining contents from this container into mix tank. Pressure rinse container thoroughly. Empty rinsate into mix tank for dilution before disposal into sanitary sewer. Repeat pressure rinse procedure two more times. Recycle empty container or discard in trash. Do not contaminate food or feed by storage and disposal of this product.

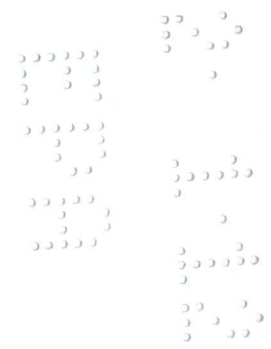


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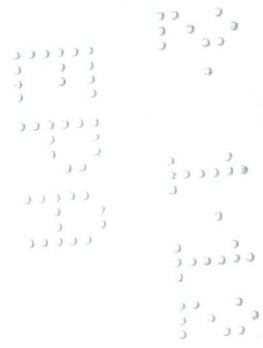
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## Company Information

### Satisfaction Guaranteed

Satisfaction Guaranteed! At Clorox, we have prided ourselves in making consistent quality bleach for [nearly] 100 years, and we are dedicated to ensuring your total satisfaction with our product. If you are not completely satisfied, please call the number below.

### Clorox Customer Assistance (800) 292-2200

Any Questions? The experts at Clorox are standing by to answer any of your laundry or household cleaning questions.

"Clorox" is a registered trademark of The Clorox Company.

Bottle shape is a registered trademark of the Clorox Company.

A list of this product's ingredients is available at [www.IngredientsInside.com](http://www.IngredientsInside.com)

-or- A list of [this product's] [*product name*] ingredients is available at [*insert company website*].

For MSDS information, please visit *insert website*.

Questions or Comments? Visit us at [www.clorox.com](http://www.clorox.com) -or- *insert website* or Call [Toll Free] (888) 797-7225 -or- (800) 227-1860 -or- 1-800-292-2200 -or- *insert toll free number*.

Write us at:

Clorox Consumer Services

P.O. Box 24305

Oakland, CA 94623

EPA Reg. No. 5813-100

EPA Est. No. 5813-CA-2 (A7), CA-3 (A8), GA-1 (A4), GA-2 (VG), IL-1 (A3), MD-2 (E6), TX-1 (A5);

71681-GA-1 (JQ), IL-1 (GU), IL-2 (24)

Beginning of batch code indicates Est. No.

Mfd. for & © YYYY The Clorox Company

1221 Broadway, Oakland, CA 94612

Made in U.S.A.

## Environmental Considerations



- Not harmful to septic and waste water treatment systems.
- This bottle is coded for recyclers. Check to see if recycling facilities accept colored HDPE in your area. Recycle where [recycling] facilities are available.
- Contains no phosphorus -or- phosphates.

**For carton:** Carton made with \_\_\_% recycled paperboard, minimum \_\_\_% post-consumer. -or- This packaging material contains at least \_\_\_% post-consumer recycled paper.





### DIRECTIONS FOR USE

[WHERE TO USE: -or- WHERE DO I USE **THIS PRODUCT?**]

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Note to reviewer: All directions may be written in numbered form or in paragraph form.**

**Note to reviewer: this statement only to be used on institutional labels with medical use sites and/or bloodborne pathogens**  
**This product** is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semicritical medical devices prior to sterilization or high level disinfection.

	<b>[Amount [of]] this product -or- bleach</b>	<b>[Amount [of]] water</b>	<b>Instructions</b>
<b>For Laundry [Use] [Bleaching -and/or- Whitening -and/or- Stain Removal] -or- [To Bleach -and/or- Whiten -and/or- Remove Stains]</b>			
Bleachable Fabrics	1/2 cup [4 oz] or Max[imum] line -or- level [in dispenser]  [1 cup] [8 oz]	Standard Machine or HE -or High Efficiency Machine  [Extra Large Washer -or- Heavily Stained -or- Soiled Load]	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] or add 1/2 cup bleach to wash water. [4.] Add clothes [and start wash].  [For best results, dilute bleach with a quart of water and add to wash 5 minutes after the wash cycle has begun.] [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]
<b>For Sanitizing -or- To Sanitize</b>			
Work Surfaces	2 tsp [1/3 oz]	1 Gallon	Wash, rinse, wipe surface area with bleach solution for [at least] 2 minutes, let air dry. -or- To sanitize work surfaces, wash, rinse and wipe surface area with a solution of 2 teaspoons of bleach per 1 gallon of water for [at least] 2 minutes. Let air dry.
Dishes, Glassware, Utensils	2 tsp [1/3 oz]	1 Gallon	Wash and rinse. [After washing,] soak for [at least] 2 minutes in bleach solution, [drain] and [let] air dry. -or- To sanitize dishes, glassware, and utensils, wash and rinse. [After washing,] soak for [at least] 2 minutes in a solution of 2 teaspoons of bleach per 1 gallon of water, [drain] and air dry.
Refrigerators, Freezers	2 tsp [1/3 oz]	1 Gallon	Remove food [from refrigerator -and/or- freezer]. Wash, rinse, wipe surface area with bleach solution for [at least] 2 minutes. Let air dry.
Plastic Cutting Boards	2 tsp [1/3 oz]	1 Gallon	Wash and rinse. [After washing,] soak for [at least] 2 minutes in bleach solution, let air dry.
Wooden Cutting Boards	2 Tbsp [1 oz]	1 Gallon	Wash, wipe, or rinse with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 minutes. Rinse with a solution of 2 teaspoons of this product per gallon of water. Do not rinse or soak equipment overnight.
Baby Bottles	2 tsp [1/3 oz]	1 Gallon	Wash and rinse. [After washing,] soak for [at least] 2 minutes in bleach solution, let air dry.
Garbage Cans	1/2 cup [4 oz]	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let stand for 5 minutes before rinsing.
Pet [Food -and/or- Water] Bowls	2 tsp [1/3 oz]	1 Gallon	Wash and rinse. [After washing,] soak for [at least] 2 minutes in bleach solution, let air dry.
[Kitchen] [Dish]cloths & Rags	1/2 cup [4 oz]	1 Gallon	[Pre-]wash items, then soak in solution for [at least] 5 minutes. Rinse and air dry.

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	[Amount [of]] this product -or- bleach	[Amount [of]] water	Instructions
<b>For Sanitizing -or- To Sanitize continued</b>			
Laundry -or- Bleachable Fabrics	1/2 cup [4 oz]	Standard Machine	[1.] Sort laundry by color. [2.] Add detergent. [3.] Fill bleach to max[imum] line -or- level [in dispenser] or add 1/2 cup bleach to wash water. [4.] Add clothes [and start wash].
	1/2 cup [4 oz]	HE -or- High Efficiency Machine	-or- Follow the laundry use directions using 1/2 cup of this product.  [Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors. Use [with] a detergent.]
<b>For Disinfecting -or- To Disinfect</b>			
Floors, Walls, Vinyl, Glazed Tiles -and/or- ( <i>Insert relevant use site(s) from List 5</i> )	1/2 cup [4 oz]	1 Gallon	[Pre-]wash surface, [mop or] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 minutes. Rinse well and air dry. -or- To disinfect floors, walls, vinyl, and glazed tiles, pre-wash surface, then mop or wipe with a solution of 1/2 cup of bleach per 1 gallon of water. Allow solution to contact surface for [at least] 5 minutes. Rinse well and air dry. [For <i>Pseudomonas aeruginosa</i> , Canine parvovirus and Feline paleukopenia virus, let stand for -or- contact time is 10 minutes.]
Bathtubs, Showers [& Kitchen] Sinks	1/2 cup [4 oz]	1 Gallon	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 minutes. Rinse well and air dry.
Nonporous Baby Toys [& Furniture]	1/2 cup [4 oz]	1 Gallon	[Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 minutes. Rinse well and air dry.
Nonporous pet toys -and/or- accessories -or- pet areas	1/2 cup [4 oz]	1 Gallon	[Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for [at least] 5 minutes. Rinse well and air dry.
Toilet Bowl	3/4 cup [6 oz]	Toilet Bowl	Flush toilet. Pour this product into bowl. Brush bowl, making sure to get under the rim, and let solution stand for 10 minutes and flush again. -or- To disinfect a toilet bowl, flush the toilet. Pour 3/4 cup of bleach into the bowl. Brush bowl, making sure to get under the rim, and let solution stand for 10 minutes and flush again.
<b>For Mold and Mildew [and Stain] Removal -or- To Remove Mold and Mildew [Stains]</b>			
All Surfaces	3/4 cup [6 oz]	1 Gallon	[Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 5 minutes. Rinse well and air dry.
	1/2 cup [4 oz]	1 Gallon	-or- [Pre-]wash surface [and] wipe with bleach solution[. Allow solution to contact surface] for at least 10 minutes. Rinse well and air dry.
<b>For Deodorizing -or- To Deodorize</b>			
Garbage Cans	1/2 cup [4 oz]	1 Gallon	After washing and rinsing, brush inside with bleach solution. Let drain.
Drains	3/4 cup [6 oz]	—	Flush drains. Pour into drain. Flush with hot water.
<b>For Bleaching -and/or- Whitening -or- To Bleach -and/or- Whiten</b>			
Wooden Surfaces	1/2 cup [4 oz]	1 Gallon	Apply for [at least] 2 minutes, rinse [and air dry].
<b>For Killing Clostridium difficile [(C. diff)][spores]:</b>			
For Killing Clostridium difficile [(C. diff)][spores]:	1 part	8 parts	Clean hard, nonporous surfaces by removing gross filth [(loose dirt, debris, blood/bodily fluids, etc.)]. Apply 1:9 solution (~8700 ppm available chlorine) and let stand for 5 minutes. Rinse and air dry. Prepare fresh solution daily.
<b>[For] Hospital -and/or- Healthcare Use -or- Disinfection: -or- To Kill Pseudomonas aeruginosa:</b>			
	Use 1/2 cup of this product per gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 10 minutes. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use. Let stand 10 minutes.		

For additional directions for use, including Service Bulletins, visit [www.clorox.com/bleachuse](http://www.clorox.com/bleachuse). For more tips -and/or- uses, visit [www.clorox.com](http://www.clorox.com).

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### Laundry Use:

-or- For Laundry: -or- For Bleachable Fabrics:

[For] Standard & HE -or- High Efficiency Machines

[If uncertain about the dye colorfastness, test fabric by applying 1 drop of a solution made of 1 1/2 teaspoons of this product plus 1/4 cup water to hidden part of seam. Be sure to check all colors. After 1 minute, blot dry. No color change means the article can be safely bleached.]

[Avoid bleaching wool, silk, mohair, leather, spandex and non-fast colors.]

### Whitening -and/or- Stain Removal:

[Whitening -and/or- Stain Removal:]		
Dose -or- Load	Standard [Machine]	HE -or- High Efficiency [Machine]
Normal -or- Regular	1/2 cup	Max[imum] line -or- level [in dispenser]
Heavy -or- Heavily Soiled -and/ or- Stained	1 cup	Max[imum] line -or- level [in dispenser]

1. Sort laundry by color.
2. Add detergent.
3. Fill bleach to max[imum] line -or- level [in dispenser] or add 1/2 cup bleach to wash water.
4. Add clothes[, and start wash].

[For best laundry results, dilute 1/2 cup of this product in 1 quart of water. Add to wash 5 minutes after the wash cycle has begun.]

[For heavily soiled loads, add slightly more -or- up to 1 cup of this product [in a standard washer].]

[To handwash, pretreat stains and clean heavy soils, rinse to remove loose soil and fully soak each garment for 5 minutes in a solution of 3 Tablespoons of this product to 1 gallon of cool water. Rinse and perform a regular wash following the laundry use directions.]

[For HE Machines, follow HE machine usage instructions.]

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### Sanitization:

To sanitize laundry: Add 1/2 cup of this product to a standard or HE -or- High Efficiency washer following the laundry use directions.  
-or-

To kill 99.9% of bacteria -or- [*insert organisms from List 1*] in your laundry: Add 1/2 cup of this product to a standard washer following the laundry use directions.

## Laundry Use: continued

### High Efficiency Washing Machine Maintenance:

[HE] Washing machine manufacturers recommend that you should perform periodic machine maintenance up to once per week, to ensure that your HE washer remains clean and free from any soil build-ups that may cause malodors.

-or-

[HE] [Washing machine] manufacturers recommend [that] a periodic machine maintenance is performed [up to once per week] to prevent [soil build-ups that may cause] malodors. Some HE washers offer a special maintenance [or wash-out -or- clean washer] cycle. Check [the use and care guide] to see if your machine has one. If it does, follow the manufacturer's recommendations.

-or-

If your HE washer has a maintenance [or wash-out -or- clean washer] cycle, follow the manufacturer's recommendations. If your HE washer doesn't have a [-or- an automated] maintenance cycle, you may perform this function manually:

[[Note:] Do not put laundry in the washer.]

1. Select the hot water setting. [If there is no hot water setting, then select a "white" or a "stain" cycle setting.]
2. Select the "extra rinse" option[, if offered].
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle [through [its] completion].
5. If the HE washer does not have a second rinse option, manually select an additional rinse cycle to ensure that no bleach remains in your -or- the washer.
6. If your -or- the HE washer still has unpleasant odors, [you may need to] repeat steps 1 through 5 [as necessary].

-or-

1. Use hot water.
2. Select "extra rinse" option.
3. Add this product to the bleach dispenser. Fill to its -or- the maximum level.
4. Run the cycle.
5. Follow with extra rinse [to ensure that no bleach remains [in your washer] -or- is left behind].
6. Repeat steps 1-5 [as necessary] [if your [HE] machine still has unpleasant odors].

## Household/Commercial/Institutional Use:

[DO NOT USE ON NON-STAINLESS STEEL, ALUMINUM, SILVER OR CHIPPED ENAMEL.]

DO NOT use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

For Use on Hard, Nonporous Surfaces [(insert item from List 5: Hard, Nonporous Use Sites)]

### Disinfection Directions for Use:

#### [For] Disinfecting:

-or-

To disinfect [(insert item from List 5: Hard, Nonporous Use Sites)]:

Use 1/2 cup of this product per gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 5 minutes. Rinse [thoroughly -or- well] and air dry.

-or-

1. [Pre]wash surface -or- item.
2. Mix 1/2 cup this product -or- bleach per 1 gallon water.
3. Apply, let stand 5 min.
4. Rinse, [and] air dry.

[For] Toilet Bowls -and/or- bidets:

Flush toilet -and/or- Bidet. Pour 3/4 cup of this product into bowl. Brush entire bowl including rim with a scrub brush or mop. Let stand 10 minutes before flushing again.

[For] Potty Seats -or- Trainers:

Empty seat. Fill with 1/2 cup of this product per gallon of water. Let stand 5 minutes. Rinse and air dry.

[For] Litter Boxes:

Remove litter. Wash box in soap and water. Fill with 1/2 cup of this product per gallon of water. Let stand 5 minutes. Rinse and air dry.

[For] Mold and Mildew:

Use 3/4 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 5 minutes. Rinse and air dry.

-or-

Use 1/2 cup of this product per gallon of water. Wash, wipe, or rinse items with water, then apply disinfecting -or- bleach solution. Let stand 10 minutes. Rinse and air dry.

### ~~YYY~~Special Label Instructions for Cleaning Prior to Disinfection against *Clostridium difficile* endospores

**Personal Protection:** Wear appropriate barrier protection such as gloves, gowns, masks or eye covering.

**Cleaning Procedure:** Fecal matter/waste must be thoroughly cleaned from surfaces/objects before disinfection by application with clean cloth, mop, and/or sponge saturated with product intended for disinfection. Cleaning should include vigorous wiping and/or scrubbing, until visible soil is removed. Special attention is needed for high-touch surfaces. Surfaces in patient rooms should be cleaned in an appropriate manner, with restrooms and other 'dirty' areas cleaned last. Do not reuse soiled cloths. **Infectious Materials Disposal:** Cleaning materials used that may contain feces/wastes should be disposed of immediately in accordance with local regulations for infectious materials disposal.

**[For] Killing *Clostridium difficile* [spores]:** Add 1 part bleach to 8 parts water to achieve a 1:9 dilution (~8700 ppm available chlorine) before use. Clean hard, nonporous surfaces by removing gross filth [loose dirt, debris, blood/bodily fluids, etc.]. Apply 1:9 solution and let stand for 5 minutes. Rinse and air dry. Prepare fresh solution daily. [Avoid contact with surfaces that may be damaged by bleach.] Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

## Household/Commercial/Institutional Use:

### Special Instructions for Cleaning and Decontaminating Against HIV, HBV, and HCV on Surfaces/Objects Soiled with Blood/Body Fluids

This product kills HIV-1, HBV, and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), [Human] Hepatitis B Virus (HBV), and [Human] Hepatitis C Virus (HCV).

**Personal Protection:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product.

**Dilution and Contact time:** Prepare a solution of 1/2 cup of bleach + 1 gallon of water (at least 1700ppm available chlorine) and spray or flood surface; let stand 5 minutes.

**Disposal of infectious materials:** Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

### Sanitization Directions for Use:

#### [For] Sanitizing:

#### Food Contact Surfaces:

-or-

To sanitize (*insert item from List 6: Food Contact Sanitization Use Sites*):

Use approximately 2 teaspoons of this product per gallon of water to prepare a 200 ppm available chlorine solution; use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 minutes. Air dry.

Wooden cutting boards: Use approximately two tablespoons of this product per gallon of water to prepare a 600 ppm available chlorine solution; use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 2 minutes. Rinse all surfaces with a solution of 2 teaspoons of this product per gallon of water. Do not rinse or soak equipment overnight.

#### Non-Food Contact Surfaces:

-or-

To sanitize (*insert item from List 5: Hard, Nonporous Use Sites*):

Use 1/2 cup of this product per gallon of water. Wash, wipe, or rinse items with detergent and water, then apply sanitizing -or- bleach solution. Let stand 30 seconds. Air dry.

#### Fruit & Vegetable Washing:

Thoroughly clean all fruits and vegetables. Mix 1/4 teaspoon of this product in 1 gallon of water to make a sanitizing solution of 25 ppm available chlorine. Submerge fruit or vegetables in this sanitizing solution for 2 minutes. [Rinse with water, and air dry.]

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### Hospital Use:

[For] Hospital -and/or- Healthcare Use -or- Disinfection:

-or-

**To Kill *Pseudomonas aeruginosa*:**

Use 1/2 cup of this product per gallon of water. [Pre]wash surface -or- item, then apply disinfecting -or- bleach solution. Let stand 10 minutes. Rinse [thoroughly -or- well] and air dry. -or- Follow Disinfection Directions for use. Let stand 10 minutes.

### Spray Applications:

This product can be diluted and spray applied for convenient broad spectrum disinfection of hard, nonporous surfaces in (*insert location(s) from List 7*).

**Directions for use:**

Hard Nonporous Surfaces:

To disinfect hard nonporous surfaces, first clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Make solution by adding 1/2 cup bleach + 1 gallon of water [(~2400ppm available chlorine)].

Spray surface using a coarse spray with the bleach solution until thoroughly wet. Allow it to remain on the surface for 5 minutes. Rinse and dry.

To ensure [sodium] hypochlorite [bleach] stability, prepare solutions daily.

### Closure Directions for Use:

***to be molded into the Child-Resistant Cap***

Squeeze -or- Press -or- Pinch -or- Push -or- Depress -or- Grasp -or- Force -or- Pressure -or- Crush [Sides] and -or- & Lift [Up] -or- Pull [Up] -or- Raise [Up] -or- Tilt [Up] -or- Pick Up -or- Elevate

-or-

Push -or- Thrust -or- Drive -or- Ram -or- Move -or- Force and -or- & Twist -or- Wind -or- Coil -or- Curl -or- Twirl -or- Bend -or- Rotate -or- Turn -or- Screw -or- Wrench

<b>List 1: Laundry Sanitization Organisms</b>	
Klebsiella pneumoniae	[ATCC 4352]
Methicillin Resistant Staphylococcus aureus [(MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa	[ATCC 15442]
Staphylococcus aureus	[ATCC 6538]
<b>List 2: Hard, Nonporous Surface Disinfection Organisms</b>	
This product, when used as directed on hard, nonporous surfaces, disinfects against the following:	
<b>Bacteria</b>	
Acinetobacter baumannii	[ATCC 19606]
Clostridium difficile [(C. diff)] [spore] <sup>WV</sup>	[ATCC 43598]
Community Acquired Methicillin Resistant Staphylococcus aureus [- (CA-MRSA)]	[NARSA NRS123] [(Genotype USA400)]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Legionella pneumophila [(the bacteria that causes Legionnaire's disease)]	[ATCC 33153]
Methicillin resistant Staphylococcus aureus [- (MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa <sup>1</sup>	[ATCC 15442]
Salmonella enterica [(a common cause of food-borne illness)]	[ATCC 10708]
Shigella dysenteriae [(a common cause of food-borne illness)]	[ATCC 11835]
Staphylococcus aureus [(a common cause of Staph infection)]	[ATCC 6538]
Streptococcus pneumoniae	[ATCC 6305]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
<b>Mold, Mildew, Fungi</b>	
Aspergillus brasiliensis ( <i>tested as Aspergillus niger</i> ) [(mildew)]	[ATCC 16404]
Candida albicans	[ATCC 10231]
Trichophyton mentagrophytes [(a common cause of Athlete's Foot)]	
<b>Viruses Enveloped[‡]</b>	
[‡]2009-H1N1 Influenza A virus [(Novel H1N1)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
[‡]Avian Influenza A virus [(H3N2)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78 [ATCC VR-2072]
[‡]Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
[‡]Herpes Simplex virus type 2 [causative agent of genital herpes]	[(Strain G)] [ATCC VR-734]
[‡]Human Coronavirus	[Strain 229E] [ATCC VR-740]
[‡]Influenza A virus [Influenza A2] [Flu Virus]	[ATCC VR-544, Strain Hong Kong]
[‡]Influenza B virus	[Strain B/Hong Kong/5/72] [ATCC VR-823]
[‡]Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
[‡]Respiratory Syncytial virus [(RSV)] [(cause of respiratory infections in infants)]	[(Strain Long)] [ATCC VR-26]
[‡]Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
[‡]Varicella Zoster Virus	[ATCC VR-1367]
<sup>1</sup> 10 min[ute] contact time <sup>WV</sup> Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]	



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**List 2: Hard, Nonporous Surface Disinfection Organisms Continued**

<b>[‡]Viruses Non-Enveloped</b>	
[‡]Adenovirus [type 2] [(common cause of respiratory infections)]	[Strain Adenoid 6] [ATCC VR-846]
[‡]Canine Parvovirus <sup>1</sup>	[Strain Cornell] [ATCC VR-2017]
[‡]Feline Calicivirus [as surrogate for Norovirus -or- Norwalk Virus]	[ATCC VR-782]
[‡]Feline Parvovirus <sup>1</sup> [(Feline panleukopenia virus)]	[ATCC VR-648]
[‡]Hepatitis Type A virus [(HAV)]	[Strain HM-175]
[‡]Poliovirus [type 1]	[Strain Chat] [ATCC VR-1562]
[‡]Rotavirus [(most) common cause of childhood diarrhea]	[Strain WA]
[‡]Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]

**Bloodborne Pathogens**

[‡]Human Hepatitis B virus [(as duck HBV)] [(HBV)]	
[‡]Human Hepatitis C Virus [(as bovine viral diarrhea virus)] [(HCV)]	
[‡]Human Immunodeficiency Virus Type 1 [(HIV-1)]	[(Strain HTLV-IIIB)]

**List 3: Food Contact Sanitization Organisms**

Escherichia coli O157:H7 [(common cause of food-borne illness)]	[ATCC 35150]
Listeria monocytogenes [(common cause of food-borne illness)]	[ATCC 19111]
Salmonella typhi [(common cause of food-borne illness)]	[ATCC 6539]

**List 4: Non-Food Contact Sanitization Organisms**

<b>Bacteria</b>	
Klebsiella pneumoniae	[ATCC 4352]
Staphylococcus aureus [(common cause of Staph infection)]	[ATCC 6538]

<sup>1</sup>10 min[ute] contact time

### Use Sites and Surfaces:

#### List 5: Hard, Nonporous Surface Use Surfaces

##### Kitchen:

Appliances	Glass	Stoves
Brushes	Latex enamel painted woodwork	Stovetops
Cabinet -or- drawer handles	Linoleum	Thermometers
[Ceramic] glazed tile [floors or countertops]	Lunchboxes	Trash cans
Countertops	Ovens	Trash compactors
Faucets	Plastic laminate	Vinyl
Floors	Refrigerator [handles]	Walls
Freezers	Refrigerators	Work surfaces
Garbage cans	Sinks	
Garbage disposals	Solid surface -or- sealed granite countertops	

##### Bathroom:

[Bath]tubs	Glazed Porcelain	Sinks
Cat litter boxes	Potty seats -or- trainers	Thermometers
Combs and brushes	Shower curtains	Glazed Tile
Countertops	Shower doors	Toilets [handles]
Faucets	Shower walls	Urinals
Floors	Showers	Vinyl

##### Baby[']s Nursery -and/or- Items:

Baby Bathtubs	Diaper pails	Painted cribs
Bumpers	Hard, nonporous toys	Plastic mattress covers
Changing tables	High chairs	Playpens
		Restaurant High Chairs

##### Outdoors:

Barbeque[s] [grills]	Outdoor siding	Sports equipment
Bike -or- bicycle	Plastic patio furniture	Sealed Stucco
Finished woodwork (decks, fences, arbors, trellises, benches, and patio furniture)	Playground sets	Sides of house
Flower pots -and/or- planters	Sealed Brick	Glazed Tile
Golf balls -and/or- clubs	Sealed Driveways, walkways, and sidewalks	Wading -or- kiddie pools
	Sealed Patio stone	

For heavy soil, preclean surface before disinfecting.

##### Cars:

Dashboard	Door handles	Steering wheel
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### Use Sites and Surfaces continued:

**List 6: Food Contact Sanitization Use Surfaces:**

Baby bottles	Glassware	Sippy cups
Countertops	Plastic [baby] feeding spoons	Stainless cutlery
Dishes	Plastic cutting boards	Stainless utensils
Food Contact Surfaces	Pots and pans	[Travel] mugs
Freezers	Refrigerators	

**List 7: Use Sites -or- Locations:**

**For Use In:** -or- This product can be used on hard, nonporous surfaces in *(Enter site(s) or location(s) from List 7)*

Airplanes	Health Clubs	Offices
[All] Around the House	Homes [(including kitchens, -and/or- bathrooms, -and/or- nurseries, -and/or- sick rooms, -and/or- laundry rooms)]	Patient Rooms
Ambulances	Hospital Premises	Pet Kennels
Animal Care Facilities -or- Hospitals	Hospitals	Physicians' -or- Pediatricians' Offices
Animal Husbandry	Hotels -or- Motels -or- Condominiums	Play -or- Common Areas
Attics	Household Premises	Playrooms
Automobiles -or- Cars	Households	Playgrounds
Barbeque -or- Grill Areas	House[hold]s	Pools
Bathrooms	Institutional [establishments -or- premises]	[Public] Restrooms
Cafeterias	Institutions	Public Transportation
Casinos	Kennels	Resorts
Churches	Kitchens	Restaurants
Classrooms	Laboratories	School Buses
Clinics	Laundry	Schools
Closets	Locker Room Facilities	Shelters
Commercial [establishments -or- premises]	[Manicure] [Pedicure] Salons	Shopping Carts
Day Care [Centers]	Meat Processing Plants	Sick Rooms
Dental Offices	Medical Clinics -or- Offices	Spas
Diners	Military Installations	Sports Facilities
Dorms	Movie Theaters	Storage Areas
Eating establishments	Nursing Homes	Stores
Elder Care Center	Nurseries	Timeshares
[Emergency] Waiting Rooms	Office Buildings -or- Places -or- Areas -or- Environments	Toilet Areas
Food Processing Plants/Facilities		Universities
Gyms		Veterinary Offices -or- Premises
		Work places -or- Environments -or- Areas

**General/Cleaning/Stain Removal/Deodorizing Claims:**

**New[!] [ & Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- 1/2 cup = 1 load [for the same great result[s]\*
- 1.37X Concentrated Bleach\*
- [100 year] Anniversary -and/or- vintage [Edition]
- A classic -or- essential cleaner -or- cleaning product
- Add **This Product** to your detergent and get more pristine whites
- All you need [now] is [half] -or- [1/2] [of] [a] cup for your laundry needs!\*
- Anti-Allergen (non-living)
- Before 3/4 cup --> Now [use] 1/2 cup [for laundry [use]]
- Bleach has never been easier to use!\*
- Bleach Works
- Bleaches Out Tough Stains
- Boosts Cold Water Cleaning -or- Washing Power
- Boost Laundry Cleaning Power
- Boosts the performance of your HE -or- High Efficiency machine
- Brightens whites
- Clean laundry begins with a clean machine
- Clean Pour
- Cleans
- Cleans -and/or- Deodorizes [Around The House]
- Cleanses -and/or- whitens [the clothes]
- Cleans your [HE -or- High Efficiency] washing machine
- Clean[s] White[s]
- Cleaning booster [even] in -or- on cold water washing
- [Clorox] Centennial [Anniversary]
- Cold Water Booster
- Collectible -or- collector's edition [bottle -or- label]
- Commercial -and/or- Institutional Use
- [Compatible] For Use In High Efficiency -or- HE [Washing] Machines
- Concentrated = Same Cleaning -and/or- Whitening Power[!] [as before]\*
- [Concentrated [!]] [For the same great result[s] -or- For whitest whites,] [Now] use 1/2 cup\*\*\*\* -or- use [33% -or- 1/4 cup -or- 1/3] less[\*][than before\*] [vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Concentrated formula gives you more cleaning -and/or- whitening per load[\*], [\*\*]
- Concentrated formula gives you more cleaning -and/or- whitening [power] per load [in [an] HE washer[s] -or- machine[s]][\*], [\*\*]
- Concentrated formula gives you the same [whitening] -or- [cleaning] [power] or [results] or [performance] as [the -or- your] [previous -or- old -and/or- non-concentrated bleach -or- Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Concentrated formula gives you the same number of uses as the old -or- non-concentrated -or- previous [96 oz] -or- [182 oz] [Clorox® Regular-Bleach [EPA Reg. No. 5813-50]] bottle
- Concentrated formula -or- whitening power [in an easy -or- easier-to-handle -or- pour -or- store -or- carry -or- use -or- control bottle]\* **Note to reviewer: qualifier to be used with "easier"**
- [Concentrated formula] [so you can] [-] use less\*
- [Concentrated [!]] [Now] use 1/2 cup for laundry [use] -or- use [33% -or- 1/3 -or- 1/4 cup] less [for the same great result[s] -or- for whitest whites]\*
- Concentrated power to clean -and/or- whiten
- Concentrated **This Product**
- Concentrated **This Product** [along] with detergent cleans whites better in cold than detergent alone cleans in hot, saving you money every year [on your energy bills]
- [[Concentrated] **This Product**] gives you the whitest whites in -or- on your energy efficient, cold water loads -or- setting
- [Concentrated **This Product** is] [still] great for cleaning!
- [[Concentrated] **This Product.**] [It] still whitens better than any other bleach
- [[Concentrated] **This Product.**] [It] still whitens better than any other bleach [in [an] HE washer[s] -or- machine[s]]
- Concentrated - Use Less\*
- Concentrated whitening -and/or- cleaning formula -or- power
- Concentrated whitening power [in every drop -or- per washload] [in [an] HE washer[s] -or- machine[s]]
- Delivers great results in cold water [so that you don't need to wash in warm water, saving you money every year]
- Delivers great results when you use with your machine's cold water setting
- Deodorizer
- Deodorize[s]
- Deodorizing
- Detergent alone is not enough [to get out your toughest stains]
- Doesn't need the extra energy it takes to make the water hot
- Don't forget to run an HE -or- High Efficiency maintenance cycle with **This Product!**
- Easy way to get whiter whites
- Easy -or- easier to handle -and/or- use -and/or- carry -and/or- pour -and/or- store -and/or- control [bottle][\*] **note to reviewer: qualifier to be used with "easier"**
- Easier way to get whiter whites\*
- Eliminates -or- fights odors
- Eliminates -or- Removes Odors
- For Standard and HE -or- High Efficiency machines
- For Cold Washing
- For A Clean[er], Fresh[er] Household [& -or- and] Laundry
- For odor-free laundry
- For [Use in] Standard -and/or- Top Load -and/or- HE -and/or- Front Load [Washing] Machines
- [Free[!]] Measuring Cup[!]
- Freshens
- Gets Even Your Dirtiest Clothes White
- Great For Cold Water [Cleaning]
- Get whitening -or- stain removal with ease
- Gets whites their whitest
- Gives you the [cleanest] [whitest] whites in standard and HE -or- High Efficiency machines

\*vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]  
 \*\*[in [an] HE washer[s] -or- [machine[s]]  
 \*\*\*\*for laundry use -or- per load

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**General/Cleaning/Stain Removal/Deodorizing Claims continued:**

**New[!] [& Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- [Great] for [the] school[s] -and/or- classroom[s] -and/or- work -and/or- [the] office
- Great for use around the home -and/or- workplace -and/or- laundry room
- [Great -or- Perfect -or- Effective] for cleaning up after your pets -or- dog[s] -or- cat[s] -or- puppy -or- kitten
- Great Value
- Helps to maintain your HE machine
- High[er] Strength Bleach [than [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- High[er] Strength -or- whitening performance bleach [in HE washers] [than -or- vs. previous Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Improved -or- better whitening [formula][in an HE -or- a High Efficiency machine][\*]
- Improved -or- Better whitening power [in [an] HE machine[s] -or- washer[s]][\*], [\*\*]
- Improved stain remover [in [an] HE machine[s] or washer[s]][\*], [\*\*]
- Improved whitening -or- stain removal action [in [an] HE machine[s] or washer[s]][\*], [\*\*]
- [In a bottle] [designed for] better control\*
- In-wash booster
- Keep a bottle of **This Product** in the kitchen -and/or- the bathroom -and/or- the laundry room -and/or- the garage
- [It's] Clorox clean
- [Just as] gentle on bleachable fabrics [as before\*]
- Laundry Looks -and/or- Smells Clean
- Less water [in the product] gives you more cleaning -or- whitening per load\*, \*\*
- Less water [in the product] [gives you] more cleaning -or- whitening power -or- ingredients [per load -or- in every drop] [in [an] HE washer[s] -or- machine[s]]\* [\*\*]
- Limited time [offering]
- Liquid cleaning washing compound
- Made with [new] [innovative] processing technology
- More Value [Than Before]
- More whitening in every -or- per washload[\*], [\*\*]
- More whitening power [in every drop -or- per washload] [in [an] HE machine[s] -or- washer[s]][\*], [\*\*]
- [My] Clorox [bleach] is [now] [even] more practical to use\*
- New Look -or- Presentation
- No lime or acids in this solution
- Now use 1/2 cup instead of 3/4 cup for laundry [whitening]\*
- Now with less water [in the product]!\*
- [Now] You get more with the new formula when you use the same amount [as before]\*
- Only [half] -or- [1/2] a cup for your laundry needs!\*
- Regularly using **This Product** can save you money by helping your clothes last longer from removing stains that would have caused you to discard them
- Removes common Non-living household Allergens
- Remove[s] dirt
- Removes stains -and/or- mildew
- Removes [Tough] Stains [better than detergent alone] [and whitens whites]
- Removes [tough] stains to get [your] whitest whites
- Remove[s] what detergent can -or- may leave behind
- Rids -or- Gets Rid of hard to remove stains [better than detergent alone]
- [Rids] the buildup in [HE] or [High Efficiency] machines
- Same -and/or- Unbeatable -and/or- Great Whitening Power [as before][\*] -or- [vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Same -and/or- Unbeatable -and/or- Great Whitening[\*] [as before\* -or- vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Same cleaning efficacy as always -or- before\*
- Same cleaning -or- stain removing power [as before]\*
- Same [great] results [as Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]!
- Same number of loads -or- uses[\*] [as before\* -or- vs. -or- compared to -or- as [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]]
- Same number of uses as [your] 96 oz -or- 182 oz [non-concentrated] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]
- Same number of uses -or- loads as [your] [previous] 96oz -or- 182oz [non-concentrated] Clorox® Regular-Bleach [(EPA Reg. No. 5813-50)]
- Same -or- Concentrated cleaning -and/or- whitening [ingredients -or- power] [in every drop -or- per washload] [as before][\*] **Note to reviewer: qualifier to be used with "same" or "as before"**
- Same power to remove stains [as before]\*
- Same price as [your] 96 oz -or- 182 oz [non-concentrated] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]
- Same trusted -or- great results with less bleach\*
- Same unbeatable whitening -and/or- cleaning [power] [in a bottle that [is designed to] give[s] [me] better control]\*
- Same unbeatable whitening [in a bottle that is designed for -or- gives me better control]\*
- Sparkling White[s]
- Specially formulated for maximum stability
- Still the same usage amount -or- number of uses as the old -or- previous -and/or- 96 oz -or- 182 oz [Clorox® Regular-Bleach] bottle
- [Specially formulated] [so you] [now] [only] use 1/2 cup [for laundry [use] [for the same great result[s]] -or- [for whitest whites]\*
- Takes less space in your cupboard\*
- The concentrated cleaning power still gets whites their whitest\*
- [The] cleaning -and/or- whitening power you want [when you need it]
- [The] household essential
- The Original [All -or- Multi Purpose] Cleaner
- [The same -or- previous amount -or- dose [now]] yields more\*
- [The] Same clean [[while] using [even] less]\*
- [The same] cleaning excellence -or- excellence in cleaning\*
- [The] Same Clorox Clean -or- White [[while] using less [bleach]]\*
- The same unbeatable -or- unsurpassed whitening\*
- [The] same whitening power [I expect from Clorox [bleach]] [as before]\*

\*vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]  
\*\*[in [an] HE washer[s] -or- [machine[s]]

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Note: **Bold, italicized text is information for the reader and is not part of the label.** [Bracketed information is optional text.] Underlined text is not to be used. ~~Strike-through (text) means removed.~~  
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EPA Reg. No. 5813-100 PUMA  
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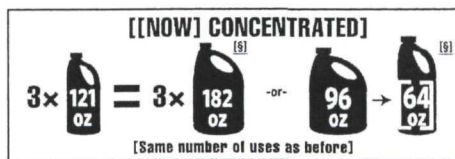
**General/Cleaning/Stain Removal/Deodorizing Claims continued:**

**New[!] [& Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- [The] smart[er] way to clean -or- do laundry
- The stain remover for whites
- The white line is the Clorox line
- **[This Product,]** a clean you can smell
- **[This Product,]** an essential household item
- **[This Product]** doesn't need hot water to work
- **[This Product,]** essential for your disaster preparedness box -or- checklist
- **This Product** Gets Even Your Dirtiest Clothes White
- **[This Product** gives you] better -or- improved whitening [than ever before] [in [an] HE washer[s] -or- machine[s]][\*], [\*\*]
- **[This Product]** gives you tough stain removal and easy whitening
- **[This Product]** gives you whitening with ease -or- pouring with ease -or- controlled whitening -or- whitening without effort
- **[This Product]** has advanced whitening technology that is not available in detergent
- **[This product is] [now[!]] [33% More] concentrated**
- [This product] [is] [now] [comes] [in] [a] compact -and/or- new -and/or- improved -and/or- better [form] **note to reviewer: qualifier to be used with "improved" or "better"**
- **[This product is [now]] concentrated for tough stain removal and is easy to pour\***
- **[This Product is [now]] concentrated with a high performance -or- precision formula [in [an] HE washer[s] -or- machine[s]]\* [\*\*]**
- **[This Product,]** keep a bottle in the kitchen -and/or- bathroom -and/or- laundry room -and/or- garage
- **[This Product]** lets you use cold water which requires no extra energy
- **[This Product]** makes cleaning easy
- **[This Product [now] has] concentrated whitening power [in an easy-to-handle bottle]**
- **[This Product,]** useful in so many ways
- **This Product** whitens better than ever before [in [an] HE machine[s] or washer[s]][\*], [\*\*]
- Throwback -or- retro [bottle -or- label -or- package]
- Use 1/2 cup [for laundry use -or- per load][for whitest whites -or- for the same great result[s]]\*
- Use 1/2 cup instead of 3/4 cup for laundry [whitening -and/or- cleaning]\*
- Use 1/2 cup vs. 3/4 cup [for laundry [use]]\*
- Use less [bleach] [for] [the same] [great] [results]\*
- Use less [,] [for the] same cleaning power [as before]\*
- Use less vs. other non-concentrated bleach
- Use **This Product** and save money—it cleans your clothes and your [HE -or- High Efficiency] laundry machine at the same time
- Use **This Product** and see the difference [in -or- on your clothes -or- whites -or- stains][\*], [\*\*]
- Use **This product** and see the difference [in -or- on your clothes -or- whites -or- stains] [in [an] HE washer[s] -or- machine[s]][\*], [\*\*]
- Use **This Product** for a clean made easy
- Use **This Product** for a Clorox clean
- Use **This Product** for whitest whites
- Use **This Product** -or- Clorox Bleach for pristine whites
- Use **This Product** regularly to help prevent stains from building up -or- getting worse
- [Use] **This Product** [to] [effectively] remove[s] [juice] [berries] [ketchup] [mud] [dirt] [grass] [coffee] [red wine] [spaghetti] [mustard] [tea] stains!
- Using **This Product** -or- bleach is easier than ever\*
- Using **This Product** with the leading detergent [whitens] -or- [cleans] better in cold water than just using the leading detergent alone in warm water
- [Value] [Size] [2 -or- 3 -or- 4] Pack
- [Visit -or- Check [out] our website at] [www.clorox.com](http://www.clorox.com) [for more information] [on Clorox®]
- Washing Machine Cleaner
- Whitening your whites has never been easier\*
- Whitens -and/or- removes stains even on cold water [washing]
- Whitens better than detergent alone [and is easy to pour]
- Whitens [Bleachable Fabrics]
- Whitens [whites] [and removes stains]
- Whitens whites by removing [tough] stains
- Whitest Whites
- Whitest Whites [Technology]
- With concentrated **This Product**, I will get stains out -or- remove stains the first time
- With concentrated **This Product**, I will get the whitest whites the first time
- Works Even In Cold Water!
- Works in your maintenance cycle [too]

\* vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]

\*\*[in [an] HE washer[s] -or- [machine[s]]]



[[Use your phone to] go here -and/or- scan [[the] tag -or- [this] code] to learn -or- get -or- see [more] uses -or- information [on how-to-use [This Product]] -or- [how-to] tips -or- [how-to -[use]] videos]



[Clorox] Centennial [Anniversary]

§[Same number of loads as [previous] [96 oz -or- 182 oz] Clorox® Regular-Bleach] **(Note to reviewer: These graphics may show a different number of bottles or different sizes to accommodate various units of sale)**

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**Sanitizing/Disinfecting:**

**New[!] [& Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- A few surprising uses of bleach -or- **This Product**. Disinfecting [pet] toys -and/or- Sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls.
- A germicide & disinfectant
- Antibacterial
- Antibacterial produce rinse -or- soak -or- wash
- Antifungal
- Bactericide
- Bactericidal
- Can be used as a produce -or- vegetable -or- fruit rinse -or- soak -or- wash
- Can be used to disinfect your pet's accessories and nonporous toys
- Can be used to sanitize -and/or- clean your baby's laundry -and/or- clothes -and/or- cloth diapers
- Clean. Disinfect. Protect.†††
- Clean -and/or- disinfect -and/or- remove [tough] stains with less product [than before]\*
- Cleans -and/or- Disinfects -and/or- Whitens -and/or- Sanitizes with -or- using less bleach [than before]\*
- Clean[ing][s] -and/or- disinfect[ing][s] -and/or- protect[ing] [s] [the] [your] (*insert site or location from List 7*) [area] [environment] against -or- from -or- by killing [99.9% of] [household] germs<sup>[SS]</sup> -and/or- bacteria -and/or- viruses
- Clean[s] away -or- out and [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] bacteria -and/or- germs<sup>[SS]</sup> -and/or- viruses [commonly found in (*insert site or location from List 7*) [areas] [environments]]
- Cleans and Disinfects
- Concentrated disinfecting ingredients -or- power [in every drop]
- Disinfect for a Clorox® [bleach] clean
- Disinfectant
- Disinfecting
- Disinfects
- Disinfects -and/or- Sanitizes -and/or- Deodorizes -and/or- Eliminates Odors -and/or- cleans [around the house]
- [Disinfects -and/or- Sanitizes] [, Eliminates Mildew] And Deodorizes
- Disinfect -and/or- Deodorize -and/or- Kill 99.9% Of Germs<sup>[SS]</sup> on -or- in (*insert surface or site from list 5 or 7*)
- Disinfects (*insert site or location from List 7*)
- Disinfects [potable] drinking water [in emergency situations]
- Disinfects and deodorizes by killing [most] germs and their odors
- Disinfects hard, nonporous surfaces against (*insert organism from List 2*)
- Disinfects pet areas, accessories and nonporous toys [including kennels -and/or- litter boxes -and/or- floors]
- Eliminates germs -and/or- bacteria
- Eliminates odor causing bacteria and prevents the build-up of odors in your [HE] laundry machine
- Fight[s] -and/or- kill[s] -and/or- effective against Avian influenza [virus] [on environmental -and/or- hard, nonporous surfaces]
- [Fight[s]] [Kill[s]] [Effective] [Protect[s]] [against] (*insert organism from List 2*)
- [Fight[s]] [Stop[s]] [Kill[s]] [Eliminate[s]] [Destroy[s]] [Remove[s]] [Wipe[s] away -or- out] [Attack[s]] [Get[s] rid of] [99.9% of] [the] germs<sup>[SS]</sup> -and/or- bacteria -and/or- mold -and/or- viruses [that [can] cause [the] [common] cold -and/or- flu] [in your] (*insert site or location from List 7*) [area] [environment]]
- For institutional use
- Fungicidal -or- Fungicide
- Germicidal -or- Germicide
- Gets Rid Of Germs <sup>[SS]</sup> -and/or- Dirt
- Help prevent the spread of [the] cold and flu viruses [in your home -or- office]
- [Helps] Eliminate[s] -or- Reduce[s] odor [causing bacteria] [from your [HE] machine]
- [Helps] Prevent[s] [the] build-up of odor-causing bacteria [in your machine]
- Home Disinfectant Essential
- Hospital Disinfectant
- Inexpensive and effective business place disinfectant
- It's amazing what you can use **This Product** for: disinfecting toys -and/or- sanitizing baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- Kills 99.9% of [common household] germs<sup>SS</sup> -or- bacteria
- Kills 99.9% of (*insert organism from List 1*) in your laundry
- Kills [99.9% of] [household] mold [and mildew]
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria -and/or- germs <sup>[SS]</sup> - and/or- virus[es] [commonly] found in -or- on [the] (*insert surface or site from List 5 or List 7*)
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] cold virus -and/or- flu virus -and/or- cold and flu virus[es] [commonly] found in -or- on [the] (*insert surface or site from List 5 or List 7*)
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] bacteria - and/or- germs<sup>[SS]</sup> - and/or- virus[es] [commonly] found in -or- on [the] (*insert surface or site from List 5 or List 7*)
- Kill[s] -and/or- eliminate[s] -and/or- disinfect[s] -and/or- remove[s] -and/or- attack[s] -and/or- get[s] rid of -and/or- reduces [99.9% of] [the] (*insert organism from list 2*) [commonly] found in -or- on [the] (*insert surface or site from List 5 or List 7*)
- Kill[s] [99.9% of] bacteria on the surfaces you[r kids] touch every day
- Kills [99.9% of] flu virus†
- Kills [99.9% of] [household] viruses that cause colds and the flu: Rhinovirus and Influenza A virus
- Kills [99.999% [of]] *Clostridium difficile* (*C. diff*) spores<sup>WY</sup>
- Kills 99.9% of germs in your laundry<sup>Y</sup>
  - Kills [99.9% of] (*insert organism from List 2*) [on (*insert surface from List 5*)] [in (*insert site or location from List 7*)]
- Kills [99.9% of] [many] germs<sup>[SS]</sup> -and/or- bacteria
- Kills [99.9% of] surface germs<sup>[SS]</sup> and bacteria<sup>WY</sup> (<sup>WY</sup>*insert organism from List 2*)
- Kills [99.9% of] [the] cold -and/or- flu virus[es]††

**Sanitizing/Disinfecting:**

**New[!] [& Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- Kills [99.9% of] [the] germs<sup>§§</sup> around your home -or- house
- Kills *Clostridium difficile* (*C. diff*) spores<sup>¥¥</sup>
- Kills Germs<sup>§§</sup> and Removes Odors
- Kills -or- removes mold [and mildew]
- Makes water safe to drink [in emergency situations]
- Mildewcide
- Mildewcidal
- Pseudomonacidal
- Reduces exposure to *Clostridium difficile* [(*C. diff*)] -or- *C. difficile* -or- *C. diff* from treated surfaces<sup>¥¥</sup> **Note to reviewer: to be used only with hospital or healthcare-specific labeling, such as 5813-100-67619**
- Reduces exposure to Methicillin resistant Staphylococcus aureus [(MRSA)] from treated surfaces. **Note to reviewer: to be used only with hospital or healthcare-specific labeling, such as 5813-100-67619**
- [Removing] [Killing] [Trusted to kill] [Fighting] [Eliminating] [99.9% of] germs<sup>§§</sup> -and/or- bacteria -and/or- viruses [since 1913] [for [nearly] 100 years]
- Remove[s] bacteria from your children's hard, nonporous toys
- Sanitizer
- Sanitizes
- Sanitizes your baby's -or- workout clothes -or- laundry
- Sanitizes your laundry
- Sanitizing
- Streptocidal
- Staphylocidal
- The solution for your business' [disinfecting] -and/or- [cleaning] needs
- [This holiday season,] don't forget to disinfect -or- clean your (*insert surface from List 5*) [with a solution of bleach]
- [This holiday season,] don't forget to sanitize -or- clean your (*insert surface from List 5 or List 6*) [with a solution of bleach]
- [**This Product**] meets AOAC [Use-Dilution test] efficacy standards [for hospital disinfectants].
- [**This Product**] Removes the dirt -and/or- stains you see and the germs<sup>§§</sup> you don't see
- [**This Product.**] Useful in so many ways: Disinfect [pet] toys -and/or- Sanitize baby bottles -and/or- sippy cups -and/or- plastic cutting boards -and/or- travel mugs -and/or- pet bowls
- [**This Product**] Whiten[s]. -and/or- Remove[s] Stains. -and/or- Clean[s]. -and/or- Disinfect[s].
- Trusted to disinfect your pet's accessories and nonporous toys
- Virucidal† -or- Virucide†
- Whitening -and/or- cleaning -and/or- disinfecting made easy

†Influenza A virus

††Rhinovirus [Type 37] and Influenza A virus

†††Protect against germs on hard, nonporous surfaces

§§Staphylococcus aureus, Salmonella enterica, Escherichia coli O157:H7 and Influenza A virus.

¥Sanitizes: Staphylococcus aureus and Klebsiella pneumoniae

¥¥Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]

**Pandemic 2009 H1N1 Influenza A virus###**

**Claims:**

- Kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu).
- Kills Pandemic 2009 H1N1 influenza A virus.
- Respiratory illnesses attributable to Pandemic 2009 H1N1 are caused by influenza A virus. This product (Product Name) is a broad-spectrum hard surface disinfectant that has been shown to be effective against influenza A2 virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).
- This product has demonstrated effectiveness against influenza A2 virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 influenza A virus.
- This product has demonstrated effectiveness against influenza A2 virus and is expected to inactivate all influenza A viruses including Pandemic 2009 H1N1 (formerly called swine flu).

**### per Agency guidance dated October 22, 2009 "Guidance for Testing and Labeling Claims against Pandemic 2009 H1N1 Influenza A virus (formerly called Swine Flu)"**  
[www.epa.gov/oppad001/h1n1-guide.html](http://www.epa.gov/oppad001/h1n1-guide.html)

- Kills [2009] H1N1 [Flu Virus]
- Kills [99.9%] of Germs including [2009] H1N1 [Flu Virus]
- Kills Germs -and/or- Flu Viruses [including [2009] H1N1]
- Effective against [2009] H1N1 [Flu Virus]



### Packaging Claims:

**New[!] [ & Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf**

- [Bleach has never been] easy -or- easier to store -and/or- pour -and/or- handle -and/or- carry\* **Note to reviewer: qualifier to be used with "easier"**
- Bottle designed to pour bleach easily
- [Bottle for an] easier pour into your [HE -or- High Efficiency] machine\*
- Bottle [designed to] improve[s] [your] bleach experience [in HE -or- High Efficiency machines]\*
- [Bottle is] easier -or- easy to pour in your [HE -or- High Efficiency] machine\* **Note to reviewer: qualifier to be used with "easier"**
- Bottle is specially designed with your comfort -or- experience in mind
- [Bottle is] [for] easier -or- easy [to] use -or- pour- in your [HE -or- High Efficiency] machine -or- washer\*, \*\*
- [Concentrated **This Product**] uses less packaging material\*
- [Concentrated] [**This Product**] [with a] [new] bottle [that is] [designed to] help prevent[s] splashing
- Easy -or- easier to use!\*, \*\*
- Easy [-] to [-] handle [bottle]
- [Flip top] cap -or- closure [specially] designed for simple and secure closure -or- seal
- [In a] [bottle] [with] -or- [designed for] better control -and/or- handling\*
- Lightweight bottle!
- New bottle design
- New spout, new pour
- Newly designed bottle allows for easy whitening with a comfortable pour
- Newly designed bottle allows for true-grip pouring
- Newly designed bottle pours like never before\*
- [Newly designed -or- New -or- The -or- Today's **This Product**] bottle controls -or- tames -or- balances -or- handles the strength of bleach for a smooth, splashless pour
- Packaging technology to handle a better whitening formula [in [an] HE washer[s] - or- machine[s]]\*, [\*\*]
- Pour [**This Product**] with confidence
- Smooth flow goes straight into the machine -or- gets bleach where you want it
- Specially designed [bottle -and/or- closure] for an easier -and/or- more accurate pour\*
- Specially designed [bottle -and/or- handle] to [help [you] get bleach where you want it [with confidence]
- Specially designed [bottle -or- closure] for a more comfortable -and/or- controlled -and/or- balanced pour -and/or- experience\*
- Specially designed [bottle] -or- [closure] allows you to use bleach right
- Specially designed bottle -and/or- handle [helps] control[s] the flow of bleach
- Specially designed bottle -and/or- closure controls the pour
- Specially designed bottle -and/or- closure helps prevent splashing
- The **This Product** bottle even has a spot for your thumb!
- [The] **This Product**'s] bottle has been redesigned for a smooth, controlled pour
- [The **This Product** bottle is] designed for comfortable pouring -and/or- handling
- [[The] **This Product** bottle is] designed for easy bleach dispensing
- [The **This Product** bottle is] designed to handle the strength of bleach
- [The **This Product** bottle is] designed to mold to -and/or- easily fit in your hand
- [This bottle] [is] [Designed to] Help[s] Prevent[s] spilling -and/or- splashing
- [**This Product** has a [newly designed bottle -and/or- handle for] better control [than before]\*
- [**This Product**] [Is] [Now] Concentrated -and/or- [In an] easy -or- easier-to-handle -or- pour -or- store -or- carry -or- use -or-control [bottle]\* **Note to reviewer: qualifier to be used with "easier"**
- [**This Product** [now] has a] [new] bottle [better] designed [for you] to handle bleach\*
- [**This Product** [now] has a] technically advanced bottle developed for [smooth -and/or- nearly effortless] pouring
- [**This Product** was] designed with your comfort in mind
- [**This product**] [Now] [you can] pour with confidence
- [**This product's** new sleek design is] made for modern -or- today's [generation of] -or- HE -or- High Efficiency washing machines
- [Use **This Product** and] see the difference [in your pour -or- laundry -or- usage experience]\*
- Using This Product is easier than ever\*
- With [an] improved [flip top] closure -or- cap [for an easier -and/or- faster -and/or- more comfortable way to open [it]]\*
- With a new [packaging] technology to handle a better whitening **This Product** [in [an] HE washer[s] -or- machine[s]]\*, \*\*
- Thumbprint for easy -or- easier handling -and/or- pour -or- pouring\* **Note to reviewer: qualifier to be used with "easier"**
- [With] Easy [-] [to] [-] Grip [Handle][!]

\*vs. -or- compared to [previous] Clorox® Regular-Bleach [EPA Reg. No. 5813-50]

\*\* [in [an] HE washer[s] -or- [machine[s]]]

\*\*\* Splash[es] less and is easy -or- easier to pour

***Cross-promotion Claims:***

***New[!] [& Improved] -or- Now[!] to be used as a claim descriptor only for the first 6 months of product on shelf***

- For colors, use/try Clorox2 Stain Fighter & Color Booster. It removes the toughest [outdoor] stains better than detergent alone!
- Try Clorox2 Stain Fighter & Color Booster, a color-safe way to lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster in your colored loads (it's bleach-free/chlorine-free!). Lose the stains, not the fun!
- Try Clorox2 Stain Fighter & Color Booster. It's bleach-free/chlorine-free and safe on colors!
- Try Clorox2 Stain Fighter & Color Booster. Lose the stains, keep the colors, guaranteed. Learn more at [Dare2BeColorful.com](http://Dare2BeColorful.com)
- Try Clorox2 Stain Fighter & Color Booster. Removes stains and brightens colors! Learn more at [www.clorox.com](http://www.clorox.com)
- Try Clorox2 Stain Fighter & Color Booster to remove the toughest [outdoor] stains better than detergent alone.



# SERVICE BULLETINS

For additional directions for use, including Service Bulletins, visit [www.clorox.com/bleachuse](http://www.clorox.com/bleachuse).

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**CONSUMER USES**  
**HOUSEHOLD [HINTS] [USE]**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Clean [&] [Disinfect] Flower Pots and Planters:**

Cleaning flower containers helps prevent the transfer of molds and diseases from old plants to new ones. Wash and [thoroughly] rinse pots and planters. Soak 5 minutes in a solution of 1/2 cup of this product to one gallon of water, then rinse.

**Cold & Flu: [[To] Prevent the Spread of Cold & Flu Viruses -or- [To] Kill [the] Flu Virus[es] [on Hard, Nonporous Surfaces]:]**

This product kills 99.9% of all common household germs to help prevent the spread of germs in high traffic areas and children's items. Disinfect cribs, high chairs, and washable colorfast hard, nonporous toys quickly and easily with this product: Wash, wipe or rinse items with water. -or- Prewash items[.] [then] disinfect with a solution of 1/2 cup of this product per gallon of water. Let stand 5 minutes. Rinse thoroughly and air dry.

**Deodorizing Cat's Litter Box:**

Unpleasant cat box odors can be eliminated when this product is used to kill odor-causing germs. Wash litter box with sudsy water and rinse. Then wipe with a solution of 1/2 cup of this product per gallon of water. Let solution stand 5 minutes before rinsing thoroughly.

**Disinfecting Baby Furniture and Hard, Nonporous Toys -or- Hard, Nonporous Kid's Toys:**

Painted and enameled cribs, changing tables and high chairs, plastic mattress covers and bumpers, and washable colorfast hard, nonporous toys are disinfected quickly and easily with this product. Plus, this product kills 99.9% of all common household germs, including those that cause odors. This product leaves baby's room clean and fresh smelling. Disinfect with a solution of 1/2 cup product in 1 gallon of water. Let stand 5 minutes. Rinse and allow to [air] dry. -or- For washable colorfast hard, nonporous toys, disinfect with a solution of 3/4 cup bleach in 1 gallon of water. Let stand 5 minutes. Rinse and allow to [air] dry.

**Disinfect Pet Areas -and/or- Nonporous Toys -and/or- Accessories**

This product can disinfect your pet areas -and/or- nonporous toys -and/or- accessories. Disinfect with a solution of 1/2 cup product in 1 gallon of water. [Pre-]wash surface, soak or wipe with bleach solution[. Allow solution to contact surface] for at least 5 minutes. Rinse well and air dry.

**Eliminating Garbage Can Odors:**

This product can deodorize and sanitize your garbage cans by eliminating the bacteria that cause odors. Wash garbage cans with soapy water and rinse. Then to deodorize and sanitize, swish a solution of 1/2 cup of this product per gallon of water over the inside of the can. Let the solution stand 5 minutes before rinsing.

**Eliminating Refrigerator Odors:**

This product kills odor causing bacteria and leaves your refrigerator smelling fresh and clean. Use it inside and out. Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gallon of soapy water. Let stand 5 minutes. Rinse and then air dry interior surfaces a few minutes before replacing food.

**Keep Christmas Trees Fresher Longer:**

To prolong the life of a fresh cut tree, instead of using plain water in the tree stand bowl, use a solution of 1 1/2 tsp product per 1/2 gallon hot water, 1 cup corn syrup and 1/8 cup powdered chelated iron (available from local nurseries).

**Keep Cut Flowers Fresh Longer:**

Fresh cut flowers will stay beautiful longer if you add 1/4 teaspoon of this product to each quart of cold water. This product can also be used to remove flower vase stains and odors. Wash the vase thoroughly and then fill with a solution of 1/2 cup bleach to (1) gallon water. Let stand 5 minutes before rinsing.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**CONSUMER USES**  
**HOUSEHOLD [HINTS] [USE] continued**

**Keep Wading Pools Sanitary:**

This product is excellent for chlorinating wading pools. As a general rule, use 5 tsp per 100 gallons of water. For example, an 8-foot diameter pool holding 1 foot of water would require 20 tsp -or- 3 oz of this product. To chlorinate, mix required amount of bleach with 2 gallons of water and scatter over surface of empty pool. Fill remainder of pool with water. Empty small pools daily.

**Kitchen and Bathroom:**

Clean, disinfect and deodorize sinks, countertops, bathtubs, showers, floors, vinyl and glazed tile.

- 1) Wash, wipe or rinse items with water.
- 2) Apply disinfecting solution of 1/2 cup of this product per gallon of water.
- 3) Let stand 5 minutes before rinsing.
- 4) Rinse thoroughly and air dry.

**Recharge Instructions for HaloSource™ [Treated] Products in Sink:**

**[To Recharge [the] antimicrobial properties:]**

Fill sink with a gallon of water. Add 1/2 cup of this product. Soak HaloSource™ [treated] products in solution for [at least] 5 minutes, then rinse products and sink. Allow to air dry.

-or-

**Recharge HaloSource™ Products in Sink**

This product can maintain or recharge products containing HaloShield™ or HaloFresh™, a patented textile treatment from HaloSource™. Fill sink with a gallon of water. Add 1/2 cup of this product. Soak cloths in solution for [at least] 5 minutes, then rinse sink and cloths. Allow to air dry.

**Recharge HaloSource™ Products in Washer**

This product can maintain or recharge products containing HaloShield™ or HaloFresh™, a patented textile treatment from HaloSource™. Wash regularly in a laundry load with 1/2 cup of this product. For HE -or- High Efficiency machines - use detergent and this product [(at least 1/3 cup)] as recommended in the machine dispenser[s]. Follow laundry use instructions.

-or-

**Washer -or- Recharge Instructions for HaloSource™ [Treated] Products: Before Use:** Wash in a [normal] laundry load with 1/2 cup of this product to activate [the] antimicrobial properties. Laundry detergent [and fabric softener] may be added [to the load]. For HE -or- High Efficiency machines - use detergent and this product [(at least 1/3 cup)] as recommended in the machine dispenser[s]. Dry in [the] dryer -or- tumble dry -or- air dry.

-or-

**To Clean and Recharge [the] Antimicrobial Properties:** Wash in a [normal] laundry load with detergent [and fabric softener] and 1/2 cup of this product. Dry in [the] dryer or air dry. Launder HaloSource™ [treated] products when visibly soiled -and/or- odor develops -and/or- during your regular laundry routine.

**Removing Exterior Mold:**

Mold [growing] on washable and colorfast exterior surfaces of your home, like siding, tile roofs, sealed brick, stucco and patio stone can be easily removed using this product. First, hose surfaces to remove loose soil. Then apply a solution of 3/4 cup of this product per 1 gallon of water to wet surfaces. Reapply the solution as needed to keep the area wet for 5 minutes. Rinse thoroughly to remove residue. [Avoid applying solution in direct sunlight or to unfinished wood.] Rinse quickly and thoroughly if solution comes in contact with aluminum window frames or gutters since metal corrosion may occur.

**Removing Mold and Mildew:**

[Mold and mildew in the bathroom can be removed easily and effectively using this product.] Simply wipe down surfaces using a solution of 3/4 cup of this product to each gallon of warm water. Keep surface wet 5 minutes; then rinse thoroughly and wipe dry. -or- Simply wipe down surfaces using a solution of 1/2 cup of this product to each gallon of warm water. Keep surface wet 10 minutes; then rinse thoroughly and wipe dry. Repeat, if necessary, on heavily soiled surfaces.

**Removing Patio Moss and Mildew Stains:**

Protect nearby plants and grass by watering area thoroughly before and after product use. Patio moss and mildew stains can be unsightly, slippery and dangerous. Hose patio to remove loose debris. Then use this product to remove moss and mildew stains by washing the area with a solution of 3/4 cup of this product to 1 gallon of water. Reapply the solution as needed to keep the area wet for 5 minutes. Brush as needed to remove moss and then rinse thoroughly. [Do not use on painted wood.] Avoid excessive runoff near plants.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**CONSUMER USES**  
**HOUSEHOLD [HINTS] [USE] continued**

**Sanitize and Remove Stains from Kitchenware:**

Tough stains can be removed from china, dinnerware, dishes, plastic and glassware with this product. Plus, this product sanitizes as it cleans. Wash items thoroughly as you normally would. Then soak for 2 minutes in a solution of 2 tsp of this product to each gallon of water. Then drain and air dry.

**Sanitize Pet's Food and Water Bowls -or- Pet Bowl:**

To sanitize pet food containers, wash bowls with detergent and rinse. Fill bowls with a solution of 2 tsp of this product -or- bleach per gallon of water. Let stand 2 minutes, drain and air dry.

**Sanitize Wooden Cutting Boards -or- Cutting Boards:**

- 1) Wash, wipe or rinse items with detergent and water.
- 2) Apply sanitizing solution of 2 tablespoons of this product -or- bleach per gallon of water.
- 3) Let stand 2 minutes.
- 4) Rinse all surfaces with a solution of 2 tsp of this product -or- bleach per gallon of water.
- 5) Do not rinse or soak equipment overnight.

**Sanitizing Baby Items:**

Baby bottles, nipples and dishes can be easily sanitized using this product. Soak washed items for 2 minutes in a solution of 2 tsp of this product per gallon of water. Pour solution through nipples; then drain dry.

**Sanitizing Kitchen Cloths:**

This product can help you deodorize and sanitize dishcloths while cleaning your sink at the same time. Fill sink with a gallon of water. Add 1/2 cup of this product. Soak kitchen cloths in solution for [at least] 5 minutes, then rinse sink and cloths. Allow to air dry.

**Spring Cleaning: [(For) Eliminating Bacteria that Cause Household Odors:]**

Sanitize and deodorize common household items, such as sinks, garbage cans, and refrigerators by eliminating the bacteria that cause odors.

**Sinks:**

Wash, wipe or rinse items with water. Apply solution of 1/2 cup of this product per gallon of water. Let stand 5 minutes before rinsing. Rinse thoroughly and air dry.

**Garbage cans:**

Wash garbage cans with soapy water and rinse. Swish a solution of 1/2 cup of this product per gallon of water over the inside of the can. Let the solution stand 5 minutes before rinsing.

**Refrigerators:**

Remove food before using this product. Wash surfaces with a solution of 1/2 cup of this product per gallon of soapy water. Let stand 5 minutes. Rinse thoroughly and then air dry interior surfaces a few minutes before replacing food.

**Toilet Bowls:**

Disinfect and deodorize your toilet.

- 1) Flush toilet.
- 2) Pour 3/4 cup of this product into bowl.
- 3) Brush entire bowl, including rim, with a scrub brush or mop.
- 4) Let stand 10 minutes before flushing again.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**BACTERICIDAL EFFICACY**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product, when used as directed below, is effective against the following bacteria:

Acinetobacter baumannii	[ATCC 19606]
Clostridium difficile [(C. diff)] [spore] <sup>www</sup>	[ATCC 43598]
Community Acquired Methicillin Resistant Staphylococcus aureus [- (CA-MRSA)]	[NARSA NRS123] [(Genotype USA400)]
Escherichia coli O157:H7 [(E. coli)]	[ATCC 35150]
Extended Spectrum Beta Lactamase producing Escherichia coli [(ESBL producing E. coli)]	[ATCC BAA-196]
Legionella pneumophila [(the bacteria that causes Legionnaire's disease)]	[ATCC 33153]
Methicillin resistant Staphylococcus aureus [- (MRSA)]	[ATCC 33592]
Pseudomonas aeruginosa <sup>1</sup>	[ATCC 15442]
Salmonella enterica [(a common cause of food-borne illness)]	[ATCC 10708]
Shigella dysenteriae [(a common cause of food-borne illness)]	[ATCC 11835]
Staphylococcus aureus [(a common cause of Staph infection)]	[ATCC 6538]
Streptococcus pneumoniae	[ATCC 6305]
Streptococcus pyogenes	[ATCC 19615]
Vancomycin Resistant Enterococcus faecalis [(VRE)]	[ATCC 51575]
110 min[ute] contact time <sup>www</sup> Follow [the] Special Instructions for Cleaning Prior to Disinfection [listed on label]	

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Use 1/2 cup of **This Product** in 1 gallon of water. -or- Prepare a 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Thoroughly wet surface with the solution and allow it to remain on the surface for 5 minutes. Rinse with clean water and dry.

**For hospital -and/or- healthcare disinfection -or- To kill Pseudomonas aeruginosa:** [First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.) Use 1/2 cup of **This Product** in 1 gallon of water. -or- Prepare a 2400 ppm available chlorine solutions. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 10 minutes. Rinse with clean water and dry.

**To Sanitize Garbage Cans/Diaper Pails:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Let stand [at least] 5 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 3/4 cup of bleach to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 10 minutes before flushing again.

**Use Sites:**

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**VIRUCIDAL† EFFICACY**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product, when used as directed below, is effective against the following viruses on hard, nonporous, inanimate surfaces

<b>[‡]Viruses Enveloped</b>	
[‡]2009-H1N1 Influenza A virus [(Novel H1N1)]	[Strain A/Mexico/4108/2009 CDC #2009712192]
[‡]Avian Influenza A virus [(H3N2)]	[Strain A/Washington/897/80 X A/Mallard/New York/6750/78 [ATCC VR-2072]
[‡]Cytomegalovirus	[Strain AD-169] [ATCC VR-538]
[‡]Herpes Simplex virus type 2 [causative agent of genital herpes]	[(Strain G)] [ATCC VR-734]
[‡]Human Coronavirus	[Strain 229E] [ATCC VR-740]
[‡]Influenza A virus [Influenza A2] [Flu Virus]	[ATCC VR-544, Strain Hong Kong]
[‡]Influenza B virus	[Strain B/Hong Kong/5/72] [ATCC VR-823]
[‡]Parainfluenza virus [(type 3)]	[(Strain C243)] [ATCC VR-93]
[‡]Respiratory Syncytial virus [(RSV)] [(cause of respiratory infections in infants)]	[(Strain Long)] [ATCC VR-26]
[‡]Rubella virus [(German Measles virus)]	[Strain M-33] [ATCC VR-315]
[‡]Varicella Zoster Virus	[ATCC VR-1367]
<b>[‡]Viruses Non-Enveloped</b>	
[‡]Adenovirus [type 2] [(common cause of respiratory infections)]	[Strain Adenoid 6] [ATCC VR-846]
[‡]Canine Parvovirus <sup>1</sup>	[Strain Cornell] [ATCC VR-2017]
[‡]Feline Calicivirus [as surrogate for Norovirus -or- Norwalk Virus]	[ATCC VR-782]
[‡]Feline Parvovirus <sup>1</sup> [(Feline panleukopenia virus)]	[ATCC VR-648]
[‡]Hepatitis Type A virus [(HAV)]	[Strain HM-175]
[‡]Poliovirus [type 1]	[Strain Chat] [ATCC VR-1562]
[‡]Rotavirus [(most) common cause of childhood diarrhea]	[Strain WA]
[‡]Rhinovirus type 37 [(a [common] cause of the common cold)]	[ATCC VR-1147, Strain 151-1]
†10 min[ute] contact time	

**Directions for Use:**

**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Use 1/2 cup of **This Product** in 1 gallon of water. -or- Prepare a 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

**To sanitize garbage cans/diaper pails:** Preclean garbage can/diaper pail with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Let stand [at least] 5 minutes. Rinse and air dry.

**Toilet Bowls:** Flush toilet to remove gross filth. Add 3/4 cup of bleach to the bowl and brush surfaces thoroughly, making sure to get under the rim. Let stand 10 minutes before flushing again.

**Use Sites:**

This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

Note: **Bold, italicized text is information for the reader** is not part of the label. [Bracketed information is optional text.] Underlined text is ne. rike-through (text) means removed.  
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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FUNGICIDAL EFFICACY**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product, when used as directed below, is effective against mold, Trichophyton mentagrophytes [(common cause of Athlete's Foot)] [ATCC 9533], and mildew (Aspergillus brasiliensis -or- Aspergillus niger) [ATCC 16404].

**Directions for Use:**  
**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 2400 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 10 minutes. Rinse with clean water and dry.

-or-  
[First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Prepare a 3600 ppm available chlorine solution. Thoroughly wet surface with the solution and allow it to remain on the surface for 5 minutes. Rinse with clean water and dry.

**Use Sites:** This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, shower stalls, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**CANDIDA ALBICANS [ATCC 10231] EFFICACY**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Directions for Use:**  
**Hard, Nonporous Surfaces:**

**To disinfect hard, nonporous surfaces:** [First] Clean surface by removing gross filth (loose dirt, debris, food materials, etc.). Use 1/2 cup of **This Product** in 1 gallon of water. -or- Prepare a solution of 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Thoroughly wet surface with the solution and allow it to remain in contact with the surface for 5 minutes. Rinse with clean water and dry.

**To disinfect diaper pails:** Preclean diaper pails with a cleaning product prior to sanitization. Rinse with water and drain. Pour in 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Let stand [at least] 5 minutes. Rinse and air dry.

**Use Sites:**  
This product can be used on hard, nonporous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms), eating establishments, pet kennels and veterinary premises.



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Note: ***Bold, italicized text is information for the reader*** is not part of the label. [Bracketed information is optional text.] Underlined text is not strike-through (text) means removed.  
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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**SPECIAL INSTRUCTIONS FOR USING PUMA (EPA REG. NO. 5813-100)**  
**TO CLEAN AND DECONTAMINATE AGAINST HIV, HBV, and HCV ON SURFACES/OBJECTS**  
**SOILED WITH BLOOD/BODY FLUIDS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product kills HIV-1, HBV, and HCV on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings (e.g. hospitals, nursing homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS), [Human] Hepatitis B Virus (HBV), and [Human] Hepatitis C Virus (HCV).

**Personal Protection:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and other objects before applying this product. Dilution and Contact time: Prepare a solution of 1/2 cup of bleach + 1 gallon of water (at least 1700ppm available chlorine) and spray or flood surface; let stand 5 minutes.

**Disposal of infectious materials:** Use disposable latex gloves, gowns, masks, and eye coverings. Blood and other body fluids should be autoclaved and disposed of according to local regulations for infectious waste disposal.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR CONTROLLING THE SPREAD OF *PHYTOPHTHORA RAMORUM* [CAUSE OF SUDDEN OAK DEATH] IN FORESTS**  
**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

When used as directed, this product is effective in controlling the spread of the invasive pathogen *Phytophthora ramorum* in forests. *P. ramorum* causes a fatal canker disease of several tree species and damages many other plant species.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The use of infested water sources can spread *P. ramorum* to uninfested areas. Treating water prior to use helps control the spread of this pathogen.

**Directions for Use:** Add 3/4 gallon of this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 minutes prior to application for dust abatement, fire suppression, and cleaning vehicles and logging, road building, and maintenance equipment.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR PORT ORFORD CEDAR ROOT DISEASE (*PHYTOPHTHORA LATERALIS*) TREATMENT USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

When used as directed, this product is effective in controlling the spread of the fatal fungus *Phytophthora lateralis* [Port Orford Cedar Root Disease] in areas of California and Oregon where Port Orford Cedar (*Chamaecyparis lawsoniana*) grows.

Water is commonly drafted from streams and fire ponds within forested areas to use in dust abatement on forest roads, equipment cleaning and fire suppression. The water source can spread the root disease fungus to uninfested areas. Treating water prior to use helps control the spread of the fungus.

**Directions for Use:** Add 3/4 gallon this product to 1000 gallons (~50 ppm available chlorine) of drafted water. Prepare the mixture at least 5 minutes prior to application for dust abatement, fire suppression and cleaning trucks, and logging, road building and maintenance equipment.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR ENCLOSURES AND EQUIPMENT USED FOR AMPHIBIAN CARE:**  
**SPECIAL INSTRUCTIONS FOR CONTROLLING THE SPREAD OF *BACTRACHOCHYTRIUM DENDROBATIDIS***  
**(CHYTRID FUNGUS, FUNGAL PATHOGEN OF AMPHIBIANS)**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**For Use on Hard, Nonporous Surfaces of Enclosures and Equipment:**

Use protective gloves and ventilate area.

- (1) Remove amphibians from area to be treated.
- (2) Mix 1 part of this product to 5.5 parts water (approximately 1.2% sodium hypochlorite) (11,500 ppm).
- (3) Thoroughly clean and saturate surfaces for 5 minutes.
- (4) Rinse thoroughly with water before placing amphibians in enclosures or in contact with equipment.

Note: All water used for cleaning enclosures and equipment must be treated with the bleach solution to avoid rinsing the Chytrid fungus down the drain or contaminating other surfaces.

**For Use on Hard, Nonporous Field Equipment:**

Any hard, nonporous equipment, that comes into contact with water must be treated with bleach to prevent the fungal pathogen from spreading to clean sites (see instructions above). Care must be taken to avoid environmental contamination when disinfecting in the field.

Note: All water used for cleaning equipment must be treated with the bleach solution to avoid spreading the Chytrid fungus.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR SANITIZING HOSPITAL LAUNDRY**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine. -or- Use 1/2 cup of this product per standard washer, 1 cup for extra large washers or heavily soiled loads. Use a detergent. This product used according to these directions is effective against *Staphylococcus aureus* [(Staph)] [ATCC 6538], 2093], *Klebsiella pneumoniae* [ATCC 4352], *Pseudomonas aeruginosa* [(Pseudomonas)] [ATCC 15442], and Methicillin Resistant *Staphylococcus aureus* [(MRSA)] [ATCC 33592].

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR DISINFECTION OF FLOORS, WALLS, SHOWERS AND TOILETS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**To disinfect floors, walls and showers:** For nonporous surfaces such as vinyl or ceramic glazed tile, clean surfaces to remove gross filth. Rinse surfaces thoroughly with a 2400 ppm available chlorine solution. [Use chlorine test strips to determine exact available chlorine concentration -or- verify the appropriate available chlorine concentration is achieved.] Allow solution to remain on the surface for 5 minutes. Rinse. [Let air dry.]

**To disinfect toilets:** Flush toilet. Pour [3/4 cup of] bleach into bowl. Brush bowl [thoroughly], making sure to get under the rim and let solution stand for 10 minutes and flush again.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**DISINFECTING GUIDE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product—a germicide—is an 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight. In addition to being a highly effective liquid chlorine bleach for laundering and household disinfecting, it is widely used in sanitation of poultry and livestock houses and equipment, dairies, creameries, restaurants and taverns, as well as for purification of drinking water and disinfection of water for swimming and wading pools.

**IMPORTANT: Always thoroughly mix with water as directed before using.**

Do not allow undiluted product to come in contact with any fabric. (If it does, rinse out immediately with clear, cold water.)

Do not apply with natural sponge.

Do not use on non-stainless steel, aluminum, silver, or chipped enamel.

If used on stainless steel [and other acceptable metals], solution should be allowed to stand for **no more than 5 minutes**, and then rinsed off thoroughly with clear water; otherwise, it may slightly discolor and eventually corrode the metal.

If a metal sprayer is used to apply the solution, rinse sprayer thoroughly after use with clear water, and then oil the plunger.

SEPTIC TANK OPERATION is not affected by regular home and farm use of this product.

**TABLE OF LIQUID MEASURES**

3 tsp	=	1 Tbsp	=	1/2 Ounce	=	1/16 Cup
16 Tbsp	=	8 Ounces	=	1 Cup	=	1/2 Pint

For directions on sanitizing and disinfecting specific surfaces, write:

**THE CLOROX COMPANY**  
**Consumer Services Department**  
**1221 Broadway, Oakland, California 94612-1888**

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR ASPHALT OR WOOD ROOFS AND SIDINGS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

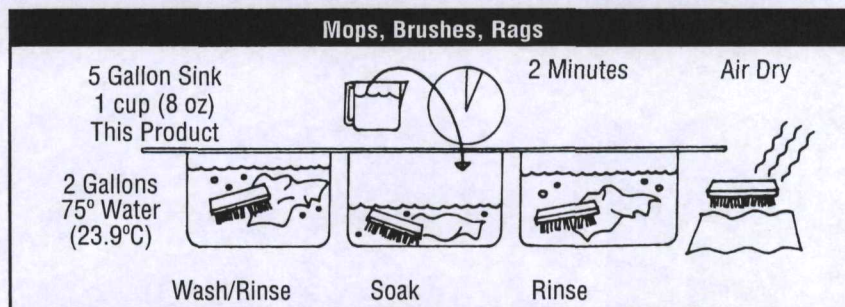
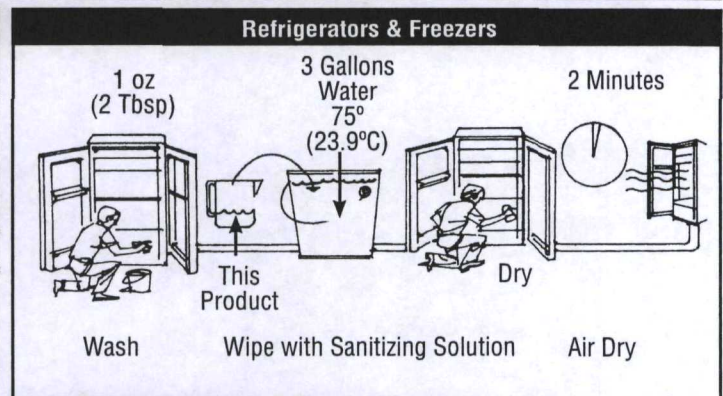
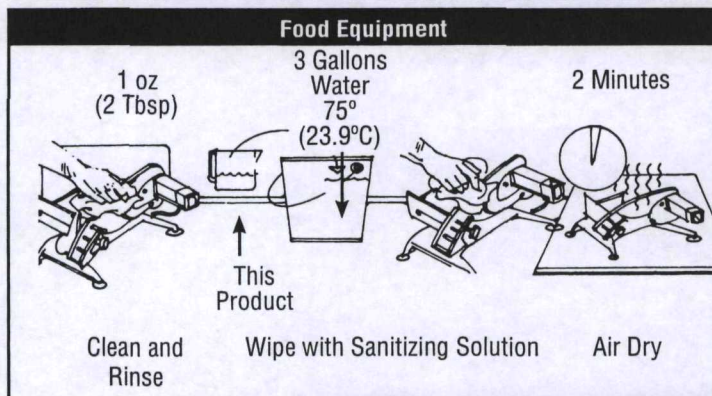
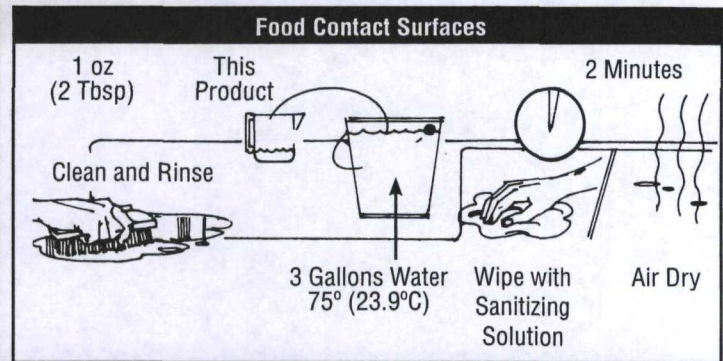
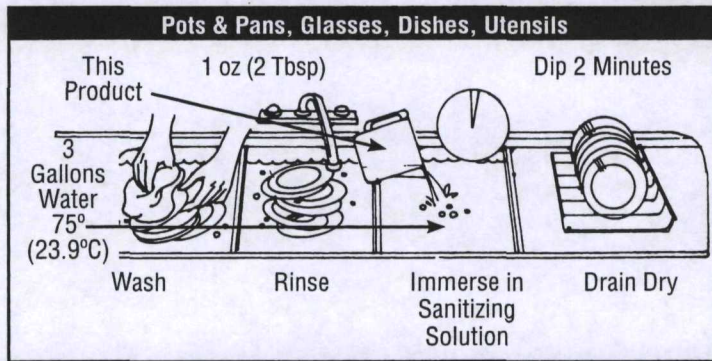
To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water. Apply a 6000 ppm available chlorine solution by brushing or spraying roof or siding. After 30 minutes, rinse by hosing with clean water.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**HOW TO SANITIZE AND DISINFECT WITH THIS PRODUCT**

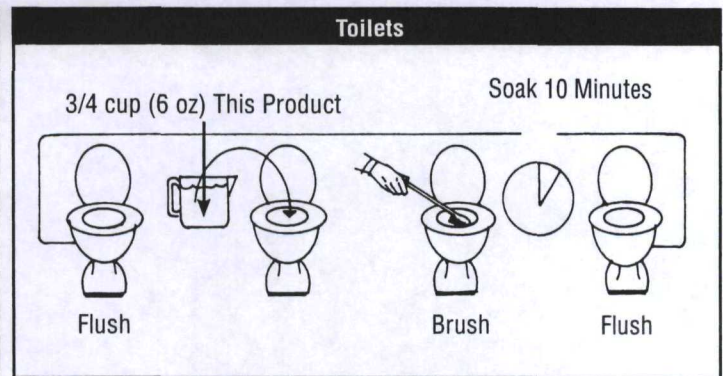
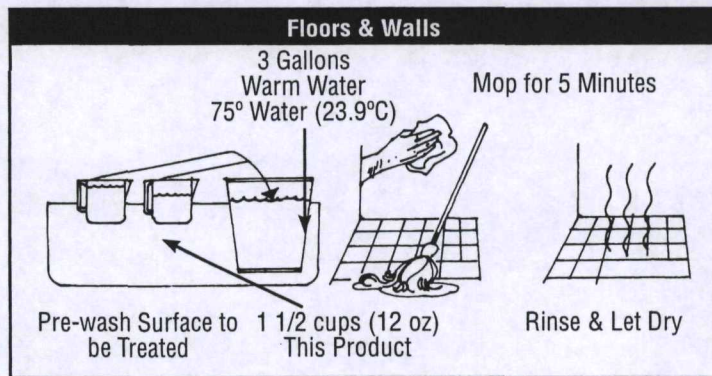
**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

[This product is] An effective multi-purpose sanitizer/disinfectant that kills many bacteria that may cause food poisoning. Two teaspoons of this product in a gallon of water is equivalent to 200 parts per million (ppm) available chlorine. **DO NOT** use this product full strength for cleaning surfaces. Always dilute strictly in accordance with the directions. For prolonged use, wear gloves.

**TO SANITIZE**



**TO DISINFECT**



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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**IN SANITATION OF RESTAURANTS AND TAVERNS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

An unclean kitchen and contaminated food result in the hazards of contaminated surfaces. To help avoid this, it is important to keep all work surfaces, equipment and utensils hygienically clean. This product is a highly effective, economical and convenient germicide for this use in restaurants and taverns, as well as in the home.

**To sanitize work surfaces (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 200 ppm available chlorine sanitizing solution. Apply this solution 1 minute. Air dry.

**To disinfect work surfaces (not utensils):** After each use, scrub thoroughly with hot suds; rinse with clear, cold water. Then prepare a 2400 ppm available chlorine disinfecting solution. Apply this solution 5 minutes. Rinse with potable water. Air dry.

**To sanitize dishes, glassware, utensils:** Wash thoroughly; then soak 2 minutes in a 200 ppm available chlorine solution [made with hot water]. Use chlorine test strips to adjust to 200 ppm available chlorine. Drain dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel. Disinfect these by scalding.)

**Disinfecting sink and sanitizing dishcloth[s]:** Should be a routine follow-up to dishwashing. First wash sink and rinse dishcloth[s] in hot suds. Drain out sudsy water. Then fill with a 2400 ppm available chlorine solution. Let stand 5 minutes. Swish dishcloth[s] in this solution; then use it to wipe sides of sink. Soak dishcloth[s] for 1 minute in this solution. Then rinse sink and dishcloth[s] with clear water.

**To deodorize drain pipes:** Flush with very hot water followed by 3/4 cup of this product. Wait 5 minutes; flush out with clear water.

**To sanitize refrigerators:** Remove food before using this product. First wash inside surfaces. Then wipe with a 200 ppm available chlorine solution made with warm water. Let stand for [at least] 2 minutes. Air dry. (Do not use on non-stainless steel, aluminum, silver, or chipped enamel.)

**Ice cream freezers - to clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz [regular] [powdered] detergent with each gallon of 450 ppm available chlorine solution. Rinse thoroughly with clean, clear water; drain. Immediately before use, sanitize for 2 minutes with a 200 ppm available chlorine solution; drain thoroughly.

**To disinfect hard, nonporous floors (plastic or ceramic tile):** Prepare a 2400 ppm available chlorine solution. Mop or scrub. (Do not use on cork or linoleum.) Let stand 5 minutes. Rinse.

**To sanitize brushes, mops and brooms:** After using brushes, mops and brooms, wash thoroughly; then soak for 5 minutes in a 2400 ppm available chlorine solution made with warm water. Rinse with clear water; dry. (Not recommended for cellulose sponge mops.)

**Pails and dustpans:** Remove heavy dirt prior to cleaning. Wash with a 2400 ppm available chlorine solution. Let stand 5 minutes. Rinse with clear, cold water. Air dry.

**To deodorize and sanitize garbage cans:** Remove heavy dirt with a cleaner. Rinse. Pour in a 2400 ppm available chlorine solution. Swab inside surfaces with this solution. Let stand 5 minutes. Rinse with clear water; dry.

1/3 oz this product (2 tsp)	+ One Gallon Water	= 200 ppm
4 oz this product	+ One Gallon Water	= 2400 ppm

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**IN SANITIZING CYCLE OF CHEMICAL SANITIZING DISHWASHING MACHINES**  
**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product is an approved sanitizing agent for use in the sanitizing cycle of chemical sanitizing dishwashing machines.

**Directions for Use:**

1. Hook up a Clorox bleach -or- ***This Product*** bottle to the automatic bleach dispensing system of the chemical sanitizing dishwashing machine. If the bottle is already in place, make sure that sufficient product remains in the bottle to complete the dishwashing job.
  2. Wash tableware in the machine following the manufacturer's operating instructions.
  3. After the washing/rinsing/sanitizing cycles are completed, remove the dishwashing rack. Let stand 2 minutes. Allow the tableware to air dry.
- Caution:** Do not sanitize silverware or pewter with this product as these metals may darken.

**Bleach Dispensing System Adjustments**

The following steps must be followed before using a new chemical sanitizing dishwashing machine and on a regular basis thereafter:

- a. Start machine and let run until the machine has begun the final rinse cycle.
- b. Take a sample of the rinse water.
- c. Using a chlorine test kit, determine the parts per million (ppm) of available chlorine in the sample.
- d. If the ppm of available chlorine is lower than the minimum or higher than the maximum level of available chlorine permitted by local public health authorities, adjust the bleach dispensing system.
- e. Repeat steps "a" through "c" until a correct ppm of available chlorine is achieved.

Your equipment service representative or dishwashing detergent supplier will often make these adjustments for you.

**Correct Chlorine Concentration**

Local public health codes vary with regard to the parts per million of available chlorine permitted in the final rinse water of chemical sanitizing dishwashing machines. The minimum level is 50 ppm of available chlorine with a maximum level of 200 ppm, although some states require 100 ppm minimum level. Check with your local public health department on the applicable regulations for your area.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR CROP/SITE TREATMENT**  
**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Crop/Site:	Asparagus Seed treatment	Pepper Seed treatment	Tomato Seed treatment
<b>Target Pest/Problem:</b>	To aid in the prevention of asparagus root rot ( <i>Fusarium oxysporium</i> and <i>F. asparagi</i> )	To aid in the prevention of bacterial spot ( <i>Xanthomonas vesicatoria</i> )	To aid in the control of bacterial canker ( <i>Corynebacterium michiganense</i> ) and tobacco mosaic virus (TMV).
<b>Dosage:</b>	6000 ppm available chlorine solution	10,000 ppm available chlorine solution	10,000 ppm available chlorine solution
<b>Dilution or Application Rate:</b>	Use 1 gallon of solution per pound of seed.	Use 1 gallon of solution per pound of seed.	Use 1 gallon solution per pound of seed.
<b>Method of Application:</b>	Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread and air dry.	Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry.	Wash seed in solution for 40 minutes, providing continuous agitation. After washing seed, spread to air dry.
<b>Frequency/Timing of Applications:</b>	1 application	1 application	1 application
<b>Preharvest Interval:</b>	Preplant treatment	Preplant treatment	Preplant treatment
<b>Other Requirements:</b>	Do not use treated seeds for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.	Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.	Do not use treated seed for food or feed. Allow to dry before storing, planting, or treating with other chemicals. Prepare fresh solution for each batch of seed.

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**PUMA (EPA PUMA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**PLANT PARASITIC NEMATODES AND PLANT DISEASE-CAUSING FUNGI QUARANTINE USE DIRECTIONS**  
 It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

<b>Crop/Site/Commodity:</b>	1. Walks, benches, tools, plant containers in nurseries and other quarantine areas 2. Farm equipment and machinery 3. Laboratory work areas, equipment and specimens 4. Deciduous fruit tree nursery stock (dormant)
<b>Target Pest/Problem:</b>	Plant parasitic nematodes, plant disease-causing fungi and general surface disinfection
<b>Dosage:</b>	See dilution rate.
<b>Dilution or Application Rate:</b>	Eight parts water with one part this product (equals approximately 0.85% active ingredient)
	<b>Laboratory work areas, equipment and specimens:</b> Prepare a solution of seven or eight parts water to one part product. Scrub areas and implements thoroughly, then wipe or allow to dry naturally. Workers doing the treatment must wear waterproof gloves. Small tools or implements and other items covered above may be immersed for 5 to 10 minutes in the solution instead of scrubbing manually. Wipe off plant tissue or soak tissue in the solution.

<b>Deciduous Fruit Tree Nursery Stock:</b>	Seven or eight parts water with one part product (equals approximately 0.85% to 1.0% active ingredient)
<b>Method of Application:</b>	Drench and dip method
<b>Deciduous Fruit Tree Nursery Stock:</b>	1. Thoroughly clean all soil from roots. 2. Dip entire tree root system in solution for 30 to 45 seconds. 3. Immediately rinse tree root system with clean water upon removal from dip solution.
<b>Frequency/Timing of Applications:</b>	As needed
<b>Deciduous Fruit Tree Nursery Stock:</b>	One application at harvest (tree-digging period)
<b>Field Reentry After Application:</b>	Not applicable
<b>Preharvest Interval:</b>	Not applicable
<b>Other Requirements:</b>	Do not apply through any type of irrigation system.
<b>Deciduous Fruit Tree Nursery Stock:</b>	Workers required to wear eye protection and waterproof gloves.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**KARNAL BUNT QUARANTINE TREATMENT USE DIRECTIONS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

<b>Crop/Site/Commodity:</b>	Tools, conveyances, mechanized farm equipment, seed conditioning or milling equipment, soil moving equipment, or grain elevators and structures used for storing and handling grain
<b>Target Pest/Problem:</b>	Karnal bunt ( <i>Tilletia indica</i> )
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part this product to 4 parts water (equals approximately 1.5% active ingredient).
<b>Method of Application:</b>	Before treating remove all soil and plant debris. The dilute solution of sodium hypochlorite will be used to wet the point of runoff surfaces potentially exposed to the pathogen. Saturate any soil removed by the treatment with the solution. It is recommended that the equipment or site be thoroughly washed down with clean water after 15 minutes to minimize corrosion.
<b>Crop/Site/Commodity:</b>	Wheat and triticale germplasm for research or seed increase use. Commodities may not be used for food, feed or oil purposes.
<b>Target Pest/Problem:</b>	Karnal bunt ( <i>Tilletia indica</i> )
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part this product to 4 parts water (equals approximately 1.5% active ingredient) with 2mL/L Tween added.
<b>Method of Application:</b>	Treat seed with the dilute solution and agitate for 10 minutes at room temperature. Follow seed treatment by a 15 minute rinse with clean, running water, then drying of the seed.
<b>Additional Restrictions, User Precautions and Requirements:</b>	Be sure treated surfaces are dry before handling. Read and follow precautionary statements on product label.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**CITRUS CANCKER TREATMENT USE DIRECTIONS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

<b>Crop/Site/Commodity:</b>	T511-1 Citrus and other Rutaceous seeds from citrus canker countries
<b>Target Pest/Problem:</b>	<i>Xanthomonas axonopodis, pv. citri</i> (citrus canker)
<b>Dosage:</b>	See dilution rate.
<b>Dilution Rate:</b>	Mix 1 part of this product to 12 parts water (equals approximately 0.6% active ingredient).
<b>Method of Application:</b>	T511-1 seeds shall be treated for possible infection with citrus canker bacteria by first washing seeds if any mucilaginous materials are adhering. Next, immerse the seeds in water at 125 degrees F or higher for 10 minutes. Then immerse seeds for a period of at least 2 minutes in a 0.6% sodium hypochlorite solution. Drain, dry and repack near original moisture content.



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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**SOUTHERN SEA OAT SEEDS (*UNIOLA PANICULATA*)**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

<b>Crop/Site/Commodity:</b>	Southern sea oat seeds ( <i>Uniola Paniculata</i> )
<b>Target Pest/Problem:</b>	Plant disease-causing bacteria and fungi
<b>Dilution of Product:</b>	Mix 1 part of this product to 2 parts water (27000 ppm).
<b>Method of Application:</b>	Soak seeds in solution for 15 minutes, rinse with tap water and allow to dry at 21°C (70°F) for 30 minutes. Store in cool dry location prior to germination.
<b>Frequency/Timing of Application:</b>	Treat seeds prior to germination.
<b>Precautions:</b>	As sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic coated and should be rinsed with clear water after use of product. Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Read and follow precautionary statements on product label.
<b>NOTE:</b>	DO NOT USE TREATED SEED FOR FOOD OR FEED. Use bleach treatment only on crops and for the purposes recommended. Apply only as specified above.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR FRUIT & VEGETABLE WASHING**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Thoroughly clean all fruits and vegetables in a wash tank. Prepare a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**AS A FUNGICIDE FOR SEED POTATOES**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product is fungicidal to the Verticillium wilt organism *V. albo-atrum* (microsclerotial type) on seed potatoes. A bleach solution of this product is applied to whole seed and freshly cut seed potato pieces during the cutting operation for planting. [Research at the Washington State University Irrigated Agriculture Research and Extension Center<sup>2</sup> has shown that treatment with a sodium hypochlorite solution helps to prevent the spread of organisms to uninfected soil or fields via seed potato surfaces.]

**Use Instructions**

Thoroughly mix a solution of 6000 ppm available chlorine for spraying. Use this solution to spray freshly cut seed potato pieces from the top and bottom of the cutting chain or elevator with a series of non-mist nozzles at 3 to 5 psi. Thoroughly cover all cut and uncut surfaces with the solution. The treatment will be most effective on clean seed tubers, as the organic matter in soil will reduce the effectiveness of the sodium hypochlorite.

Plant within four hours of the cutting and bleach treatment operation. If planting should be delayed, store the treated seed in clean, open, well-ventilated bins or truck beds. Storing cut, wet seed in large unventilated containers will contribute to secondary breakdown from soft rot organisms.

**Safety Precautions**

Do not mix full-strength product or treatment solution with any other agricultural chemical, ammonia, or acid. Avoid prolonged contact of this product with skin. Wear safety glasses. If full strength or diluted bleach is splashed in the eyes, flush with water.

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Conduct the spraying operations either outside, in a well-ventilated building, or under a hooded exhaust system. Use non-misting nozzles to avoid breathing of mist. Wear a face mask and plastic or rubber gloves and clothing. Because sodium hypochlorite is corrosive to many metals, chains and other machine parts should be either plastic or plastic-coated and rinsed with clear water after use.

**NOTE:** DO NOT USE THE TREATED SEED FOR FOOD OR FEED. Use the bleach treatment only on crops and for the purposes recommended. Apply only as specified above. Do not apply in a dipping operation or bleach solution may become contaminated with soil and organic matter from the potato surfaces and lose its effectiveness.

<sup>2</sup>Easton, G.D., M.E. Nagle, and D.L. Bailey, 1972. "Verticillium albo-atrum Carried by Certified Seed Potatoes into Washington and Control by Chemicals", *American Potato Journal* 49: 397-402.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR SANITIZING SOLUTIONS FOR EQUIPMENT AND UTENSILS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product is authorized for use as a sanitizing solution in official establishments operating under the USDA meat, poultry, shell egg grading and egg products inspection programs.

Before using this product, food products and packaging materials must be removed from the room or kept protected.

Before they are treated with a bleach solution, the food processing equipment and utensils must be thoroughly washed and then rinsed with clear, cold water.

The bleach solution used for sanitizing must not exceed 200 ppm (parts per million) available chlorine. (Use chlorine test strips to adjust to 200 ppm available chlorine.) The bleach solution must be applied by spraying, soaking or scrubbing. Treated surfaces must remain wet for at least one minute.

A potable water rinse is not required, provided the equipment and utensils are adequately drained before they come into contact with food. Little or no residue should remain to adulterate or otherwise affect edible products.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR MEAT & POULTRY PLANT LAUNDRY USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product may be used on fabric which contacts meat or poultry products directly or indirectly, provided that the fabric is thoroughly rinsed with potable water at the end of the laundering operation.

To sanitize laundry, add enough of this product to reach 200 ppm (parts per million) available chlorine (3/4 cup of bleach per standard washer, 1 cup for extra large washers or heavily soiled loads). Use a good detergent. For best results, dilute bleach with a quart of water and add to wash 5 minutes after the wash has begun. Use chlorine test strips to adjust to exactly 200 ppm available chlorine.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**SANITATION IN CARE OF SWINE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling**

**Hog houses and farrowing houses - To clean and disinfect:**

- (1) Remove loose dirt, litter and debris. Dirty or coated surfaces cannot be disinfected.
- (2) Mix 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution until detergent is dissolved.<sup>3</sup> Let stand for [at least] 5 minutes.
- (3) Scrub or pressure-spray all surfaces with this solution. Rinse with clear, cold water.
- (4) Allow to dry before housing pigs.

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Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stall chutes and other facilities occupied or traversed by animals. Empty all troughs, feeding and watering appliances. Thoroughly clean all surfaces with soap or detergents and rinse with water.

Ventilate buildings, cars, boats and other closed spaces. Do not house livestock, poultry or employ equipment until chlorine has dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

**Clean and disinfect metal watering troughs and feeders** by pressure-spraying or scrubbing with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution.<sup>3</sup> Let stand for [at least] 5 minutes. Rinse thoroughly with clear, cold water; drain dry. (Drinking troughs and feeders should be cleaned and disinfected before housing pigs, and as often as necessary to keep sanitary.)

**To sanitize drinking water:** Prepare a 5 ppm available chlorine solution using clear water. (Water containing suspended material is difficult to sanitize.)

**NOTE:** Clean metal surfaces can be sanitized using the above method. Wooden surfaces are difficult to sanitize by any method.

<sup>3</sup>For **bleach/detergent** solution, use **hot** water if available.

Use chlorine test strips to adjust to desired available chlorine level.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR POULTRY CARE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Keeping poultry healthy, productive and profitable is largely a problem of disease prevention. Remedial measures are much more difficult and often less successful than preventing the spread of disease before it infects the flock. Regular use of this product in the sanitation and disinfection of chicken houses, brooders, and other poultry equipment is an effective aid in preventing many diseases of bacterial and viral origin.

**To sanitize drinking water:** Prepare a 5 ppm available chlorine solution using clear water. Let stand 1 minute. Use in glass, porcelain, stoneware or concrete containers. Clean containers daily; rinse.

For young chicks, a 2 ppm available chlorine solution should be prepared since baby chicks do not soil the water as rapidly as grown chickens, and the solution retains its effectiveness longer.

When cleaning drinking water containers, etc., an 1800 ppm available chlorine solution is effective in removing the slime. **DO NOT ALLOW BIRDS TO DRINK THIS SOLUTION.**

**To clean and disinfect poultry houses, brooders, hatcheries:** Poultry houses should be cleaned and disinfected between cycles; hatcheries should be cleaned weekly or as necessary to keep sanitary. Metal surfaces can be satisfactorily disinfected. Wooden surfaces are difficult to sanitize by any method.

- (1) Remove all litter, loose dirt and debris.
- (2) Thoroughly mix solution of 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution.<sup>4</sup>
- (3) Using this solution, scrub or pressure-spray all exposed areas, including floor, walls, ceiling posts and support beams. Let stand for 5 minutes.
- (4) Rinse with clean, clear, cold water.
- (5) Let dry thoroughly before introducing poultry.

**Metal incubators, feeders, water containers, other poultry equipment and utensils - To clean and disinfect:** Remove loose dirt and debris. Scrub or pressure-spray with solution of 1 oz [powdered] detergent thoroughly mixed with each gallon of 1400 ppm available chlorine solution.<sup>4</sup> Let stand for 2 minutes. Rinse with clear, **cold** water. Let dry.

**For continuous washers,** prepare washing solution as above. Add an additional 1/2 oz of detergent per every 4 gallons of 50 ppm available chlorine solution every 30 minutes. Dump wash tank and recharge every 2 hours. **For manual method,** soak eggs for only 1 to 2 minutes. Agitate basket. Make sure eggs are completely covered.

Air-dry eggs as rapidly as possible. Store in cool (55° F) room. Maintain relative humidity of 60-80%.

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**NOTE:** Keep egg-washing equipment sanitary. Frequent cleaning will aid in operation and produce more sanitary eggs. While equipment is idle, bacteria can multiply. This contamination can be reduced by thoroughly flushing all equipment immediately before use with a solution of 200 ppm available chlorine.

<sup>4</sup>Where this **product/detergent** solution is recommended for sanitizing poultry houses and equipment, use **hot** water (140° F or above) if available.

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**PUMA (EPA Reg. No. 5813-100) FOR POULTRY CARE:  
[REGISTERED AS (*Insert Registered Alternate Brand Name*)]  
SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

FOR INACTIVATION OF AVIAN INFLUENZA A IN POULTRY HOUSES, BROODERS, HATCHERIES:

1. Remove all poultry or animals and feeds from the premises, trucks, vehicles, coops, crates and enclosures.
2. Remove all litter and manure or droppings from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals or poultry.
3. Empty all troughs, racks and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Mix 1 part of this product with 31 parts water. Saturate all surfaces with the disinfecting solution for 5 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, coops, and other closed spaces. Do not house livestock or poultry or employ equipment until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

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**PUMA (EPA Reg. No. 5813-100)  
[REGISTERED AS (*Insert Registered Alternate Brand Name*)]  
IN CARE OF LIVESTOCK, HORSES, PETS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**To clean and disinfect barns, stables, hutches, kennels:** Remove all litter, loose dirt and debris. Mix 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution until detergent is dissolved.<sup>3</sup> Using the solution, thoroughly scrub or pressure-spray all exposed areas including floor, walls, ceiling posts and support beams. Let stand for [at least] 5 minutes. Rinse with clean, clear, **cold** water. Let area dry thoroughly before housing animals.

**Loading and hauling equipment:** Loading chutes, trucks, trailers and other equipment for transportation of animals must be cleaned and disinfected prior to use. Pressure-spray or scrub with solution prepared by thoroughly mixing 1 oz [powdered] detergent with each gallon of 2400 ppm available chlorine solution.<sup>3</sup> Let stand for [at least] 5 minutes. Rinse with clean, clear, **cold** water. Allow to dry before use.

**Feeders and drinking water containers - to clean and disinfect:** Thoroughly scrub or pressure-spray with solution of 1 oz [powdered] detergent mixed with each gallon of 2400 ppm available chlorine solution.<sup>3</sup> Let stand for [at least] 5 minutes. Rinse thoroughly with clear, **cold** water; allow to drain dry. (A solution of 1800 ppm available chlorine is effective in removing slime which sometimes forms on drinking water containers. **DO NOT LET ANIMALS DRINK THIS SOLUTION.**)

**To sanitize animals' drinking water:** Prepare a 5 ppm available chlorine solution using clear water. Use in glass, plastic, porcelain or concrete containers daily. (See directions above.)

<sup>3</sup>For this **product/detergent** solution, use **hot** water if available.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR FOOD EGG SANITIZATION**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**To sanitize food eggs:** Thoroughly clean all eggs. Prepare a 200 ppm available chlorine solution. The sanitizer temperature must not exceed 130° F. Spray the warm sanitizer so that the eggs are completely wet. Allow the eggs to fully dry before casing or breaking. Do not apply a potable water rinse. The solution must not be re-used to sanitize eggs.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR DAIRY AND CREAMERY EQUIPMENT SANITATION**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product is effective as a chemical sanitizer of milk utensils, containers and equipment. This product dissolves milk solids and other protein material and is a quick and effective deodorizer.

An exposure period of at least 2 minutes to a 200 ppm available chlorine solution must be maintained when the solution temperature is 75° F. Use chlorine test strips to adjust solution to desired strength. Lower solution temperatures result in slower action; for each 18° F drop in temperature, approximately double the exposure time is needed to achieve equivalent bactericidal action with same strength of solution. You can also compensate for lower temperatures by increasing the concentration of this product.

You must clean out large deposits of milk or other organic matter before applying this product/water solution. A sharp decline in the available chlorine content of the solution following circulation through milk processing equipment is usually regarded as evidence of inadequate cleaning of the equipment and should be promptly investigated.

**RUBBER TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into this solution for 2 minutes before transferring them from one cow to another.

**To sanitize - SOAKING METHOD:** After each milking, wash cups and tubes by brushing thoroughly with detergent solution. Rinse cups and tubes with cold water. Prepare a 200 ppm available chlorine sanitizing solution in earthenware, glass, porcelain or stoneware containers. Submerge cups in this solution for 2 minutes, holding ends of tubes; coil tubes slowly into solution between milkings; drain thoroughly before using.

To maintain sanitizing solution at proper strength, add 2 teaspoons of this product daily (in hot weather, 3/4 oz) for each 3 gallons water, mix well. Old solution may be utilized for deodorizing and making floors and drains sanitary; for this purpose, add 3/4 oz of this product for each 5 gallons of old solution; mix well.

**To sanitize - RACK METHOD:** After each milking, rinse cups and tubes in cold water. Wash in detergent solution, then rinse. Prepare a 200 ppm available chlorine sanitizing solution; place solution in bottle above rack for 2 minutes. Place tubes and cups in rack; fill with solution and let stand between milkings; drain thoroughly and air dry before using. Old solution may be utilized in deodorizing and making floors and drains sanitary.

**METAL TEAT CUPS AND TUBES** - Before each milking, prepare a 200 ppm available chlorine sanitizing solution. Dip teat cups into this solution before transferring them from one cow to another.

**To sanitize:** After each milking, rinse cups and tubes with cold water. Wash in detergent solution; rinse in a 200 ppm available chlorine solution for 2 minutes; drain thoroughly and dry before using. **(Metal cups should not be left in bleach solution.)**

**To clean and sanitize milking machines and utensils:** Immediately after milking, flush equipment with clean, lukewarm water. Dismantle equipment after each milking and wash it (including all rubber parts and stanchion hoses) and all utensils with a solution prepared by thoroughly mixing 1 oz of your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine solution. Water temperature should be 100° F to 130° F. **(DO NOT MIX THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Rinse equipment and utensils thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**Cleaning in place - bulk storage tanks, dairy pipelines, transfer stations:** Immediately after emptying milk, flush surfaces with a large volume of clear, lukewarm water until water runs completely clear. Thoroughly mix solution of 1 oz of your [regular] [powdered] detergent with each gallon of a 200 ppm available chlorine solution. Hot water should be used if available, and the temperature of the solution should be maintained at 120-160° F throughout the entire circulation. **(DO NOT USE THIS PRODUCT WITH ACID CLEANERS OR MILK STONE REMOVERS.)** Circulate the sanitizing solution through the system for 10 to 15 minutes. (Brush-wash with solution all parts not coming in contact with solution as it circulates.) Rinse thoroughly with clean, clear water; allow to drain. Air dry. Seal this equipment to help protect against contamination. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**Separators, strainers, milk cans, pails, churns, pasteurizers - To clean and sanitize:** After using, rinse immediately with clear, cold water; then scrub or pressure-spray with solution of 1 oz of your [regular] [powdered] detergent thoroughly mixed with each gallon of 200 ppm available chlorine solution. Rinse with clean, clear water; drain thoroughly. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

**Milk bottles - To sanitize:** Clean and rinse, then immerse for 5 minutes in a 200 ppm available chlorine solution prepared with cold or lukewarm water; drain; fill. If bottles are not filled promptly, rinse again with same strength bleach solution immediately before filling; drain thoroughly. Air dry. Ordinarily, 12 gallons of this strength solution will sanitize 5000 clean quart bottles. Keep this bleach solution clean and free from milk particles.

**Ice cream freezers - To clean and sanitize:** After using, flush with warm water until water runs clear. Scrub or pressure-spray with solution prepared by thoroughly mixing 1 oz of [regular] [powdered] detergent with each gallon of 200 ppm available chlorine solution. Let stand 2 minutes. Rinse thoroughly with clean, clear water; drain. Air dry. **Immediately before use, sanitize according to directions shown below.**<sup>5</sup>

<sup>5</sup>**BEFORE USE** - Rinse with a 200 ppm available chlorine sanitizing solution for 2 minutes; drain thoroughly.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FISH PONDS AND EQUIPMENT**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Fish Ponds:** Remove fish from ponds prior to treatment. Thoroughly mix 163 oz of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

**Fish Pond Equipment:** Thoroughly clean all equipment prior to treatment. Thoroughly mix 3.5 oz of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**MAINE LOBSTER PONDS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 9800 oz of this product to 10,000 gallons of water to obtain 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond then close gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to pond.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**CONDITIONING LIVE OYSTERS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Thoroughly mix 9 oz of this product to 10,000 gallons of water to 50 - 70°F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Prepare a solution containing 200 ppm of available chlorine by mixing 3.5 oz of this product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a chlorine test kit.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR EMERGENCY DISINFECTION OF DRINKING WATER (POTABLE)**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Emergency disinfection:**

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified contaminated water to a clean container and add 12 drops or 1/8 teaspoon of this product to 2 gallons of water [(2 drops to 1 quart)]. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor. If not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers several times.

For cloudy water, use 24 drops or 1/4 teaspoon of this product per 2 gallons of water [(3 drops to 1 quart)]. If no chlorine odor is apparent after 30 minutes, repeat dosage and wait an additional 15 minutes.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR DISINFECTION OF POTABLE DRINKING WATER SYSTEMS**  
**(Public and Individual Systems)**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Public system:**

Mix a ratio of this product to water to produce a 10 ppm available chlorine by weight. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**Individual systems:**

**1. Dug wells:** Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

**Individual water systems:**

**1. Drilled, driven and bored wells:** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Mix well [(2 drops to 1 quart)]. Consult your local Health Department for further details.

**2. Flowing artesian wells:** Artesian wells generally do not require disinfection. If analysis indicates persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR EMERGENCY DISINFECTION AFTER FLOODS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Wells:**

Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR EMERGENCY DISINFECTION AFTER FIRES**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Cross connections or emergency connections:**

Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR EMERGENCY DISINFECTION AFTER DROUGHTS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**A. Supplementary water supplies:**

Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.

**B. Water shipped in by tanks, tank cars, trucks, etc.:**

Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.22 ppm chlorine residual. Use a chlorine test kit.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (*Insert Registered Alternate Brand Name*)]**  
**FOR EMERGENCY DISINFECTION AFTER MAIN BREAKS**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Mains:**

Before assembly of the repaired section, flush out mud and soil. Permit water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.



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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR SPAS, HOT TUBS AND IMMERSION TANKS, ETC.**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

**Spas/hot tubs:**

Using a dilution chart or formula, calculate an approximate amount of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleansers, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

- 1. Maintaining the water:** To maintain the water, apply the product solution over the surface to maintain a chlorine concentration of 5 ppm.
- 2. After each use:** Shock treat to control odor and algae, using the product at a rate of 1 1/4 cups to 500 gallons of water.
- 3. Periods of disuse:** During periods of disuse, add product daily to maintain a 3 ppm chlorine concentration.
- 4. Do not reenter pool until the chlorine level is between 1 to 3 ppm.** Re-entry to treated spas/hot tubs is prohibited above 5 ppm due to risk of bodily harm.

**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR WADING POOL DISINFECTION**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product—a 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight—is a convenient, economical source of chlorine for water treatment in swimming and wading pools. Also, because this product is a liquid with no insoluble particles, it is especially suitable for this use.

In chlorinating wading pools, use 3/4 oz per 100 gallons of new water. Mix required amount of this product with 2 gallons of water and scatter over surface of pool. Mix uniformly with pool water. Between fillings of pool, add 1 tablespoon of this product per 100 gallons of water each day. Empty small pools daily. (This product will not harm plastic pools.)

-or-

In chlorinating wading pools, use 1/8 cup per 100 gallons of new water. Mix required amount of this product with 2 gallons of water and scatter over surface of pool. Mix uniformly with pool water. Empty small pools daily. (This product will not harm plastic pools.)

Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The chart below is a guide to the amount of this product to add to various sized round pools. Three-fourths ounce of this product should be added to every 100 gallons of pool water.

Pool Diameter \ Depth of Water	4 Ft	6 Ft	8 Ft	10 Ft	15 Ft
6 inches	2 teaspoons	3/4 oz	1 1/2 oz	2 1/4 oz	1/2 cup
1 foot	3/4 oz	1 1/2 oz	3 oz	1/2 cup	1 1/4 cups
2 feet	1 1/2 oz	3 oz	3/4 cup	1 1/4 cups	2 1/2 cups
3 feet	2 1/4 oz	1/2 cup	1 1/4 cups	1 2/3 cups	3 2/3 cups

**TABLE OF LIQUID MEASURES**

3 tsp =	1 Tbsp =	1/2 ounce =	1/16 cup
16 Tbsp =	8 ounces =	1 cup =	1/2 pint

Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**FOR SWIMMING POOL DISINFECTION**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

This product is a 8.25% sodium hypochlorite solution containing approximately 7.85% available chlorine by weight. The purity of its ingredients and the carefully supervised process of its manufacture make this product a quality source of chlorine for water treatment in swimming and wading pools. This product is especially suitable for use in chlorinators as it is a liquid and has no insoluble particles. This product is widely used as a source of chlorine for swimming pool sanitation and does not have any adverse effects on materials used in pool construction including swimming pool liners.

For each new filling of your pool, use following initial dosages of this product.

Swimming Pool Size in Gallons	Initial Dosage of this product	Swimming Pool Size in Gallons	Initial Dosage of this product
5,000	2 cups	20,000	10 cups
6,000	3 cups	25,000	13 cups
8,000	4 cups	30,000	15 cups
10,000	5 cups	35,000	17 cups
15,000	8 cups		

NOTE: 2 cups = 1 pint; 4 cups = 1 quart; 16 cups = 1 gallon

To determine the volume of water in the pool when filled, figure 7 1/2 gallons of water for each cubic foot of pool capacity. One quart of this product per 8,000 gallons of water will supply approximately 2 ppm (parts per million) available chlorine, but this may dissipate rather rapidly in new water depending on the general sanitation conditions of the pool. Repeat dosage as needed to obtain 0.6 to 1.0 ppm available chlorine. Use chlorine test strips to adjust to the desired concentration.

In chlorinating a swimming pool, mix the required amount of this product with 10 parts water and feed this solution through a chlorinator into the main water supply line to the pool. The feeding rate should be adjusted so the required quantity of this product will be added uniformly throughout the filling of the pool; or, if the water is circulated through a filter, the bleach should be added throughout one complete circulation. If this product cannot be fed into the main water supply line, mix 3/4 cup of this product with 4 gallons of water and scatter over a portion of the pool surface; repeat until the required amount of this product has been scattered over entire surface of the pool.

Check chlorine level in pool water at least daily with a pool testing kit and add this product as needed to maintain 0.6 to 1.0 ppm available chlorine. One pint of this product per 8,000 gallons of water will supply approximately 1.0 ppm available chlorine. Frequency of application of this dosage will vary depending on number of people using the pool, weather conditions (sunlight exposure) and general cleanliness of the pool area. Chlorine level for acid-stabilized pools should be maintained at 1.0 to 1.5 ppm available chlorine.

Re-entry to treated pools is prohibited above 4 ppm due to risk of bodily harm.

Every 7 days, or as necessary, superchlorinate the pool with 75-150 oz of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1 to 3 ppm.

The effectiveness of the chlorine is best when the pool water has a pH range of 7.2 to 7.6. The pH of the pool water should be checked daily using a pool pH testing kit and adjusted as necessary.

The regular use of this product, in the above proportions, in the swimming pool usually prevents the growth of algae in the water; however, if algae growth is causing the pool water to look cloudy and uninviting, it may be corrected by doubling the initial dosage of this product for a few treatments (2 quarts instead of 1 quart per 8,000 gallons of new water). This additional product should be added to the pool in the evening after the pool is out of use so the excess chlorine will be dissipated before the pool is used again.

If algae are growing on the bottom or walls of the pool, scrub pool with a solution of 45 oz of this product to 5 gallons of water applying solution with a fiber brush. The pool should be scrubbed while wet and rinsed off when algae growth has been removed; all of the growth and dirty solution should be flushed from the pool with clear water before the pool is refilled. Avoid skin contact with undiluted product; if such contact occurs, rinse immediately with water. When added as recommended, this product has no deleterious effects on the eyes, nasal passages, or skin of people using the pool and will have no effect on swimming apparel.

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**PUMA (EPA Reg. No. 5813-100)**  
**[REGISTERED AS (Insert Registered Alternate Brand Name)]**  
**DILUTION TABLE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

To obtain a solution with an approximate available chlorine level (parts per million), thoroughly mix the indicated amounts of bleach and water. Chlorine test strips should be used to adjust to the desired available chlorine levels. Always test to ensure efficacy.

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
27000	1 part	2 parts
11,500	1 part	5 1/2 parts
10,000	1 part	6 1/2 parts
6,000	1 part	12 parts
3,600	3/4 cup (6 oz)	1 gallon
2,400	1/2 cup (4 oz)	1 gallon
	1 cup (8 oz)	2 gallons
	1 1/2 cups (12 oz)	3 gallons
	1 part	31 parts
1800	3/4 cup (6 oz)	2 gallons
1500	1 part	50 parts
600	9800 oz	10,000 gallons
500	1 part	150 parts
450	5 1/2 Tbsp (3 oz)	4 gallons

Approximate ppm Available Chlorine	Volume of this product	Volume of Water
200	2 tsp	1 gallon
	2 Tbsp (1 oz)	3 gallons
	1/4 cup (2 oz)	5 gallons
	3.5 oz	10 gallons
	3 gallons	1,000 gallons
100	1 tsp	1 gallon
	1/8 cup (1 oz)	5 gallons
	1/4 cup (2 oz)	10 gallons
50	1/2 tsp	1 gallon
	3/4 gallon	1,000 gallons
25	1/4 tsp	1 gallon
	2 tsp	7 1/2 gallons
10	3 drops	1 quart
	1/4 tsp	2 gallons
	24 drops	2 gallons
	163 oz	10,000 gallons
5	2 drops	1 quart
	12 drops	2 gallons
	1/2 tsp	10 gallons
0.5	9 oz	10,000 gallons

**DILUTION TABLE: PPM (Parts Per Million Available Chlorine).**  
 Degrades with age and exposure to sunlight and heat. Check the level of available chlorine with a test kit.

1/3 oz this product (2 tsp) + One Gallon Water = 200 ppm  
 4 oz this product + One Gallon Water = 2400 ppm

**Table of Liquid Measures:**  
 1 drop = 0.0017 oz  
 1 Tbsp = 3 tsp  
 1 oz = 2 Tbsp  
 1 cup = 8 oz  
 1 pint = 2 cups = 16 oz  
 1 quart = 4 cups = 2 pints = 32 oz  
 1 gallon = 4 quarts = 8 pints = 16 cups = 128 oz